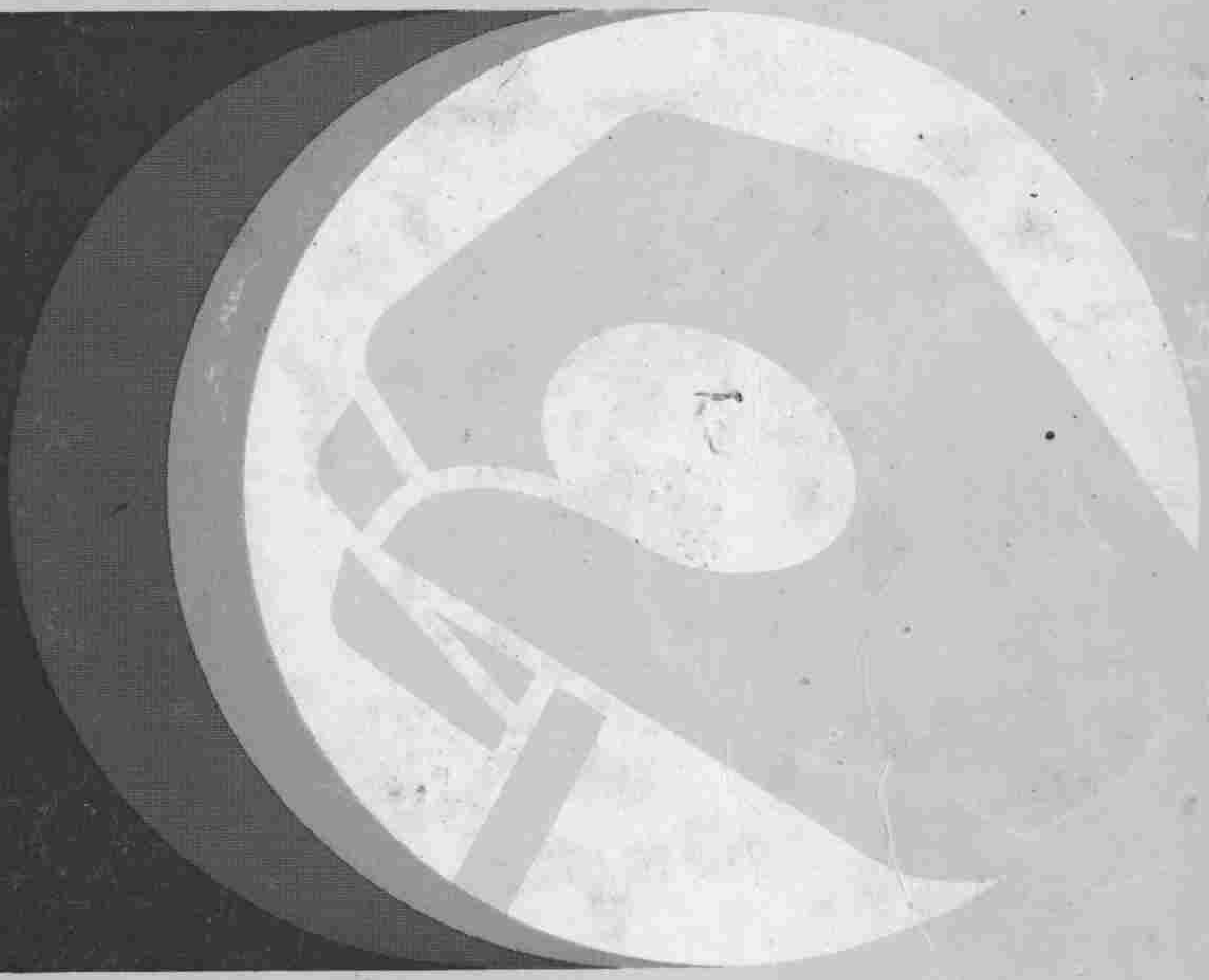
34 and 40
Spreaders

JOHN DEERE



OPERATOR'S MANUAL

Welland Works
OM-E51471 Issue F1

LITHO IN U.S.A.

To the Purchaser

Your new spreader was carefully designed and manufactured to give years of dependable service. To keep it running efficiently, read the instructions in this operator's manual. Each section is clearly identified so you can easily find the information you need - whether it is operation, lubrication, or service. Read the Table of Contents to learn where each section is located. Use the alphabetical index for fast reference.

In addition to the equipment furnished with your spreader, attachments are available to help you do a better job in special conditions. These are described in the operation and attachments sections of this manual and can be purchased from your John Deere dealer.

⚠ This safety alert symbol identifies important safety messages in this manual. When you see this symbol, be alert to the possibility of personal injury and carefully read the message that follows.

"Right-hand" and "left-hand" sides are determined by facing in the direction the spreader will travel when in use.

Record your spreader serial number in the space provided on page 45. Your dealer needs this information to give you prompt, efficient service when you order parts. If your spreader requires replacement parts, go to your John Deere dealer where you can obtain Genuine John Deere parts—accept no substitutes.

The warranty on this spreader appears on your copy of the purchase order which you should have received from your dealer when you purchased the spreader.

AFTER-SALE CHECK LIST

It is suggested that the following items be checked during the first 25 to 50 loads, or during the first season's operation of the spreader, whichever occurs first.

☐ Go over entire machine for loose or missing bolts.

☐ All safety shields are in place.

☐ All chains are properly tightened.

☐ Spring clutch is properly adjusted.

☐ Check for broken or damaged parts.

☐ Check shear pin if spreader is equipped with power-seal endgate (attachment).

☐ Check to see that the side shaft and PTO spinner shields rotate freely.

☐ Check tires for proper inflation.

☐ If possible, run the spreader to see if it is functioning properly.

☐ Review the entire operator's manual with the customer and stress the importance of proper and regular lubrication and safety precautions. Be sure he understands how to make all proper field adjustments.

☐ Advise the customer of the optional attachments that are available for special manure conditions.

....
(Date Checked)

....
(Signature)

OWNER REGISTER

Name ....
Post Office ....
County .... State ....
Serial No. ....
Operator's Manual No. ....
Date Purchased ....

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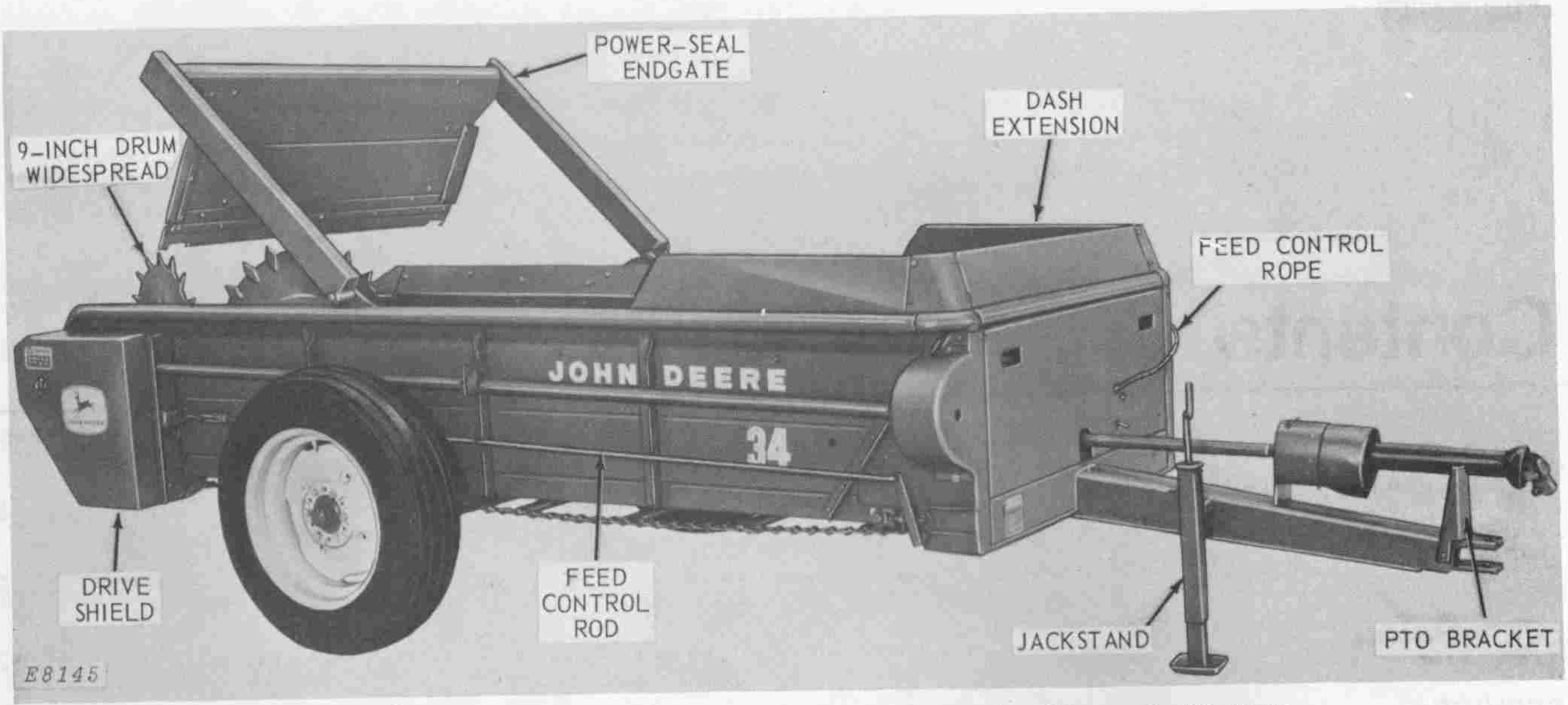
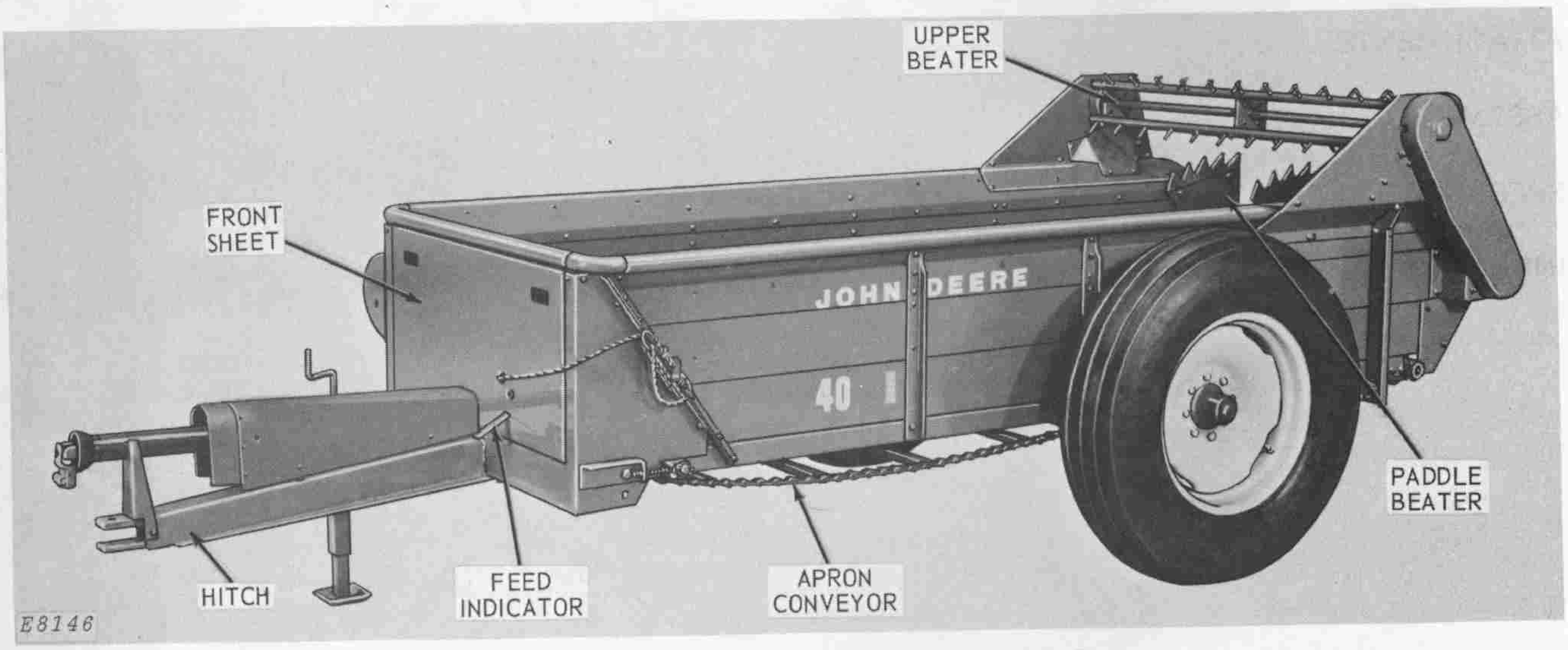


John Deere 34 Spreader with 9-Inch Drum Beater Widespread and Power-Seal Endgate



John Deere 40 Spreader with Upper Beater and Paddle Beater

Operation

GENERAL INFORMATION

The John Deere 34 and 40 Spreaders are high-capacity, low-profile spreaders that fit under most barn cleaners. These spreaders are similar except for capacity. The 34 Spreader ASAE-rated capacity is 155 cubic feet (formerly 150 bushel) with load 15 inches above paddle beater. The 40 Spreader ASAE-rated capacity is 170 cubic feet (formerly 175 bushel) with load 15 inches above paddle beater.

The spreaders may be equipped for either 540 or 1000 rpm PTO operation which assures constant and even unloading regardless of ground conditions.

Five different control settings, combined with the various tractor operating speeds provide a wide range of spreading rates. All feed changes can be made from the tractor seat with the feed control rope.

The spreader drive train is protected by a spring clutch which eliminates the need for shear pins. If an obstruction prevents the spreader from operating, the clutch will slip with a loud clicking sound.

Three types of beaters are available: a 9- or 18-inch drum beater widespread, or a paddle beater with 12 replaceable paddles. An upper beater also is available as an attachment for use with tough shed manure.

The 18-inch drum beater widespread is designed for manure that has little, if any, bedding. The drum nearly fills the rear of the spreader and prevents soft manure from running out. In many cases, the drum eliminates the need for an endgate.

The 9-inch drum beater widespread plugs some of the gap at the rear of the spreader but still handles strawy, packed manure quickly. It is designed for operations having a variety of spreader requirements from tough manure to soft.

The paddle beater has more teeth than the drum beater widespread and takes deeper bites for shredding and spreading hard, packed, strawy manure in a hurry. Teeth are easy to replace.

The single beater and bed conveyor operate from a single gear case and one roller chain. Two roller chains are used when the upper beater is used.

The beater can be stopped while the bed conveyor continues to clean out the spreader.

Two endgates are available to help contain semi-liquid manure.

The power-seal endgate which operates in front of the beater is operated by the tractor remote hydraulic cylinder. The endgate may be stopped at any height through its range to "meter" semi-liquid manure to the beater.

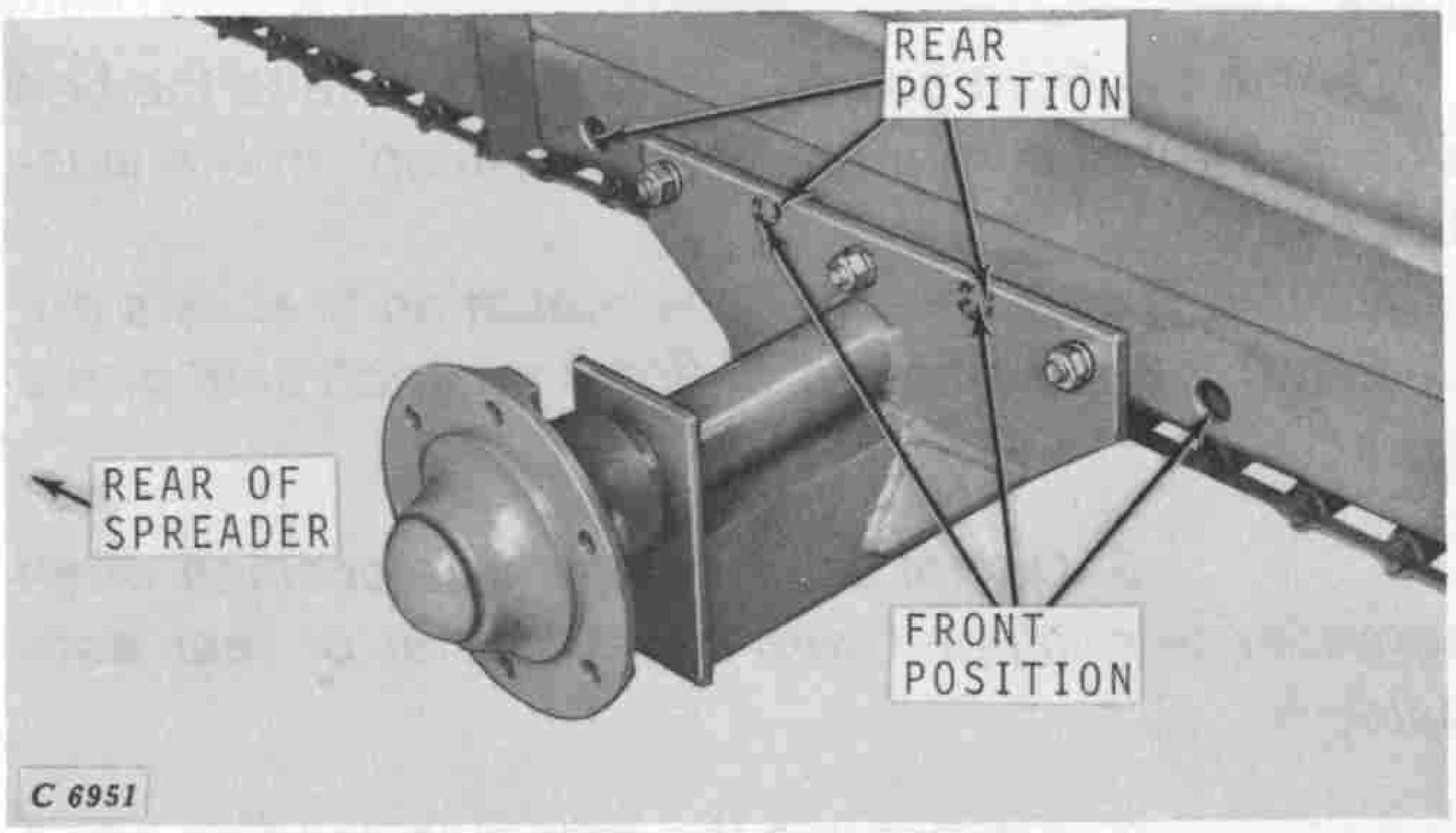
The rear endgate, with door and controls, is recommended when spreading semi-liquid or loose, strawy manure. A rope, conveniently positioned near the tractor seat, opens the endgate door.

The three-position axle allows the operator to vary the weight of the spreader at the hitch point to suit his particular tractor.

PREPARING THE SPREADER

Positioning Axle

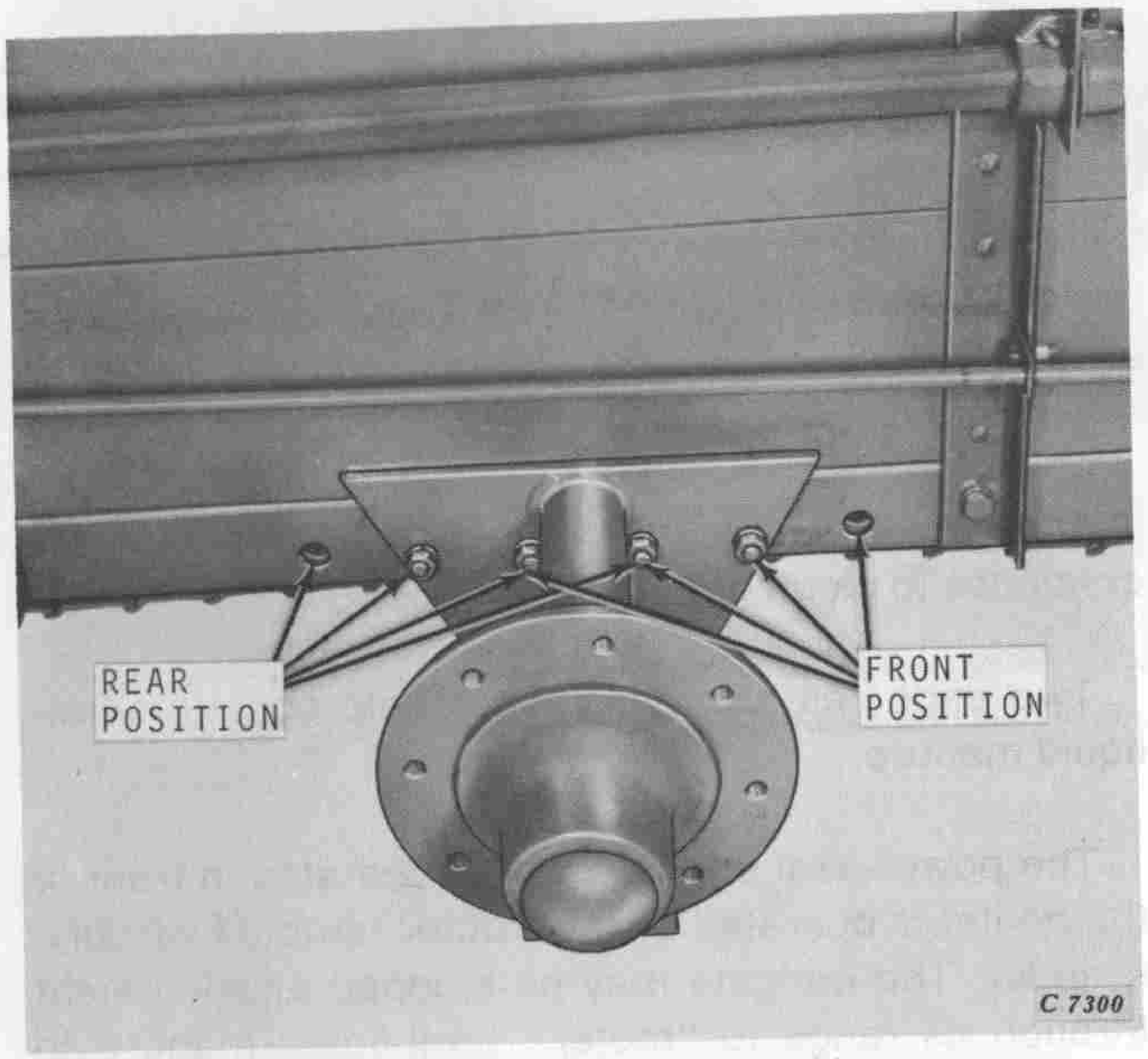
Because of the varying operating and load conditions, three axle positions are available on the spreaders. Moving the axle forward will decrease the spreader weight at the hitch. Moving the axle to the rear will increase the weight at the hitch.



34 Spreader Axle in Center Position

PREPARING THE SPREADER—Continued

Positioning Axle—Continued



40 Spreader Axle in Center Position

The following chart shows the spreader weight at the hitch for each of the three settings:

SPREADER WEIGHT AT HITCH

Axle Position		Empty	Maximum Load
Front	34	170 Lbs.	850 Lbs.
	40	215 Lbs.	900 Lbs.
Center	34	203 Lbs.	1140 Lbs.
	40	235 Lbs.	1140 Lbs.
Rear	34	235 Lbs.	1410 Lbs.
	40	254 Lbs.	1500 Lbs.

For most operating conditions, use the axle in the center position as shown.

To use the rear position, attach the axle to the bed sill at the holes marked "rear position" in the illustrations.

To use the front position, attach the axle to the bed sills at the holes marked "front position" in the illustrations.

NOTES: 1. Be sure the axle mounting brackets are installed in the same set of holes on each side of the bed.

2. Do not use the front axle position when spreader is equipped with upper beater or rear endgate.

3. Do not use the rear axle position when spreader is used with a John Deere 820, 1020, 1520, 2020, or 2520 Tractor (or any tractor of comparable size).

TIRE INFLATION

The tire sizes listed below are the only sizes recommended for use with these spreaders. Check to be sure tires are inflated according to the chart below.

34 SPREADER TIRE INFLATION

Tire Size	Inflation Pressure
7.50-20, 4-Ply Rating	24 psi
7.50-20, 6-Ply Rating	36 psi
* 9.00-20 (Used)	45 psi

40 SPREADER TIRE INFLATION

Tire Size	Inflation Pressure
11.25-24, 8-Ply Rating Rib Implement Tire (new)	28 psi
* 10 x 20 (Used)	45 psi
* 11 x 20 (Used)	45 psi
* 12 x 20 (Used)	45 psi

* *Used truck or bus tires may be installed if they have sound bodies.*

PREPARING THE TRACTOR

Tractor Requirements

The 34 Spreader may be used with the John Deere 820, 1020, 1520, 2020, 2520, 3020, 4000, 4020, 4320, 4620, and 5020 Tractors.

The 40 Spreader may be used with the John Deere 2520, 3020, 4000, 4020, 4320, 4620, and 5020 Tractors.

When the spreader is used with the 2510, 2520, or 3010 Tractors, the tractor must be equipped with a 3020 Tractor drawbar. When used with the 4520, 4620, 5010, and 5020 Tractors, the spreader must be equipped with 1000 rpm PTO drive.

Other makes and models of tractors equal in size to the John Deere tractors mentioned above may be used if the drawbar support and drawbar have a 1500-pound minimum static vertical load rating.

⚠ **CAUTION: Be sure to use a tractor capable of handling your spreader when in hilly country. Always transport your loaded spreader at a slow and safe speed.**

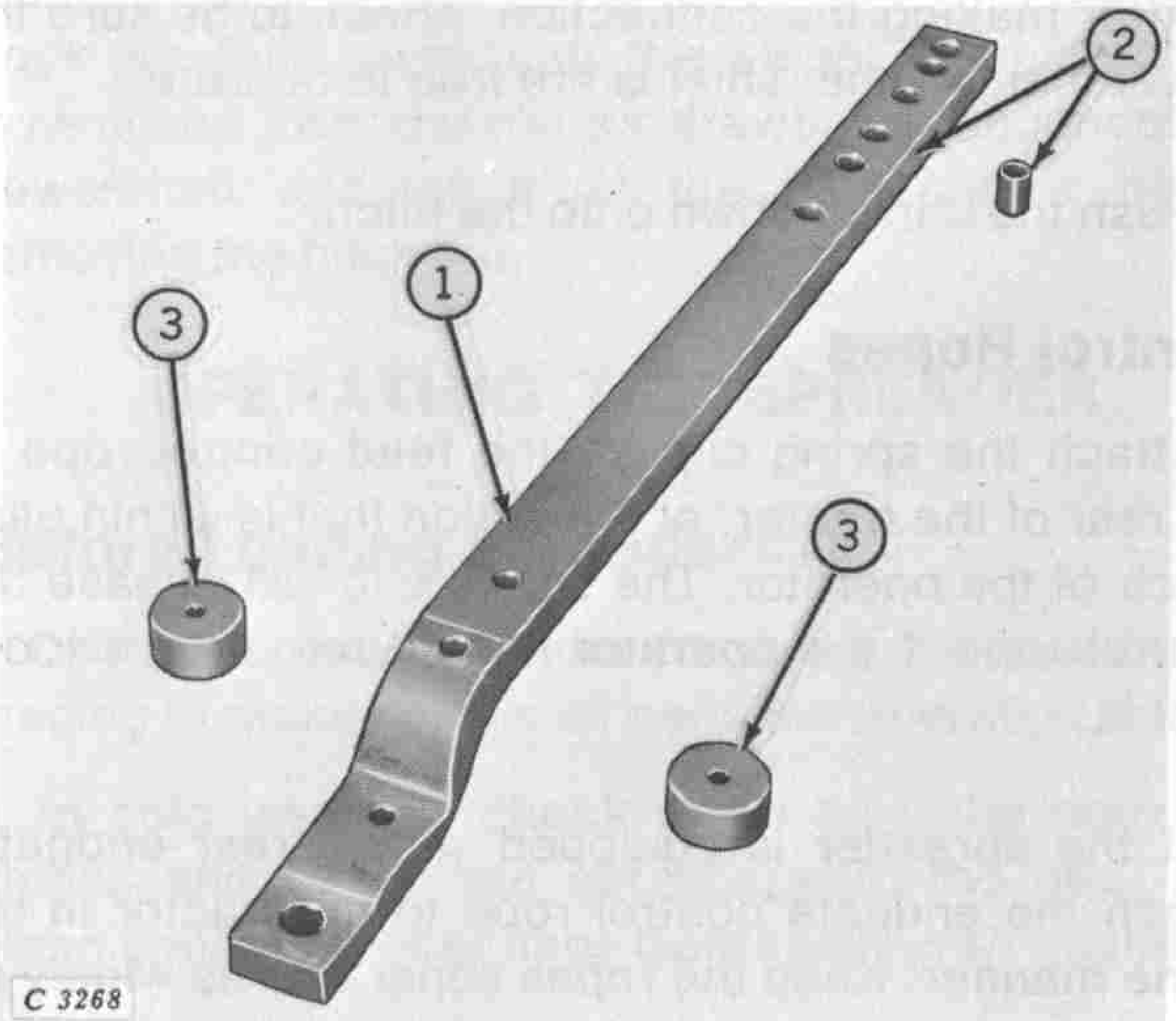
Tractor Control

The spreader is operated by the tractor power take-off. For information concerning proper power take-off operation, see your tractor operator's manual.

Hydraulic Equipment

If the spreader is equipped with the power-seal endgate, which is operated by the tractor remote hydraulic cylinder, the tractor must be equipped with at least one tractor selective control valve and one ASAE standard 8-inch stroke remote hydraulic cylinder. See your tractor operator's manual for information regarding operating the remote cylinder.

Drawbar for 2510, 2520, and 3010 Tractors



A 3020 Tractor Drawbar with bushings must be used on the 2510, 2520, and 3010 Tractors when used with the spreader.

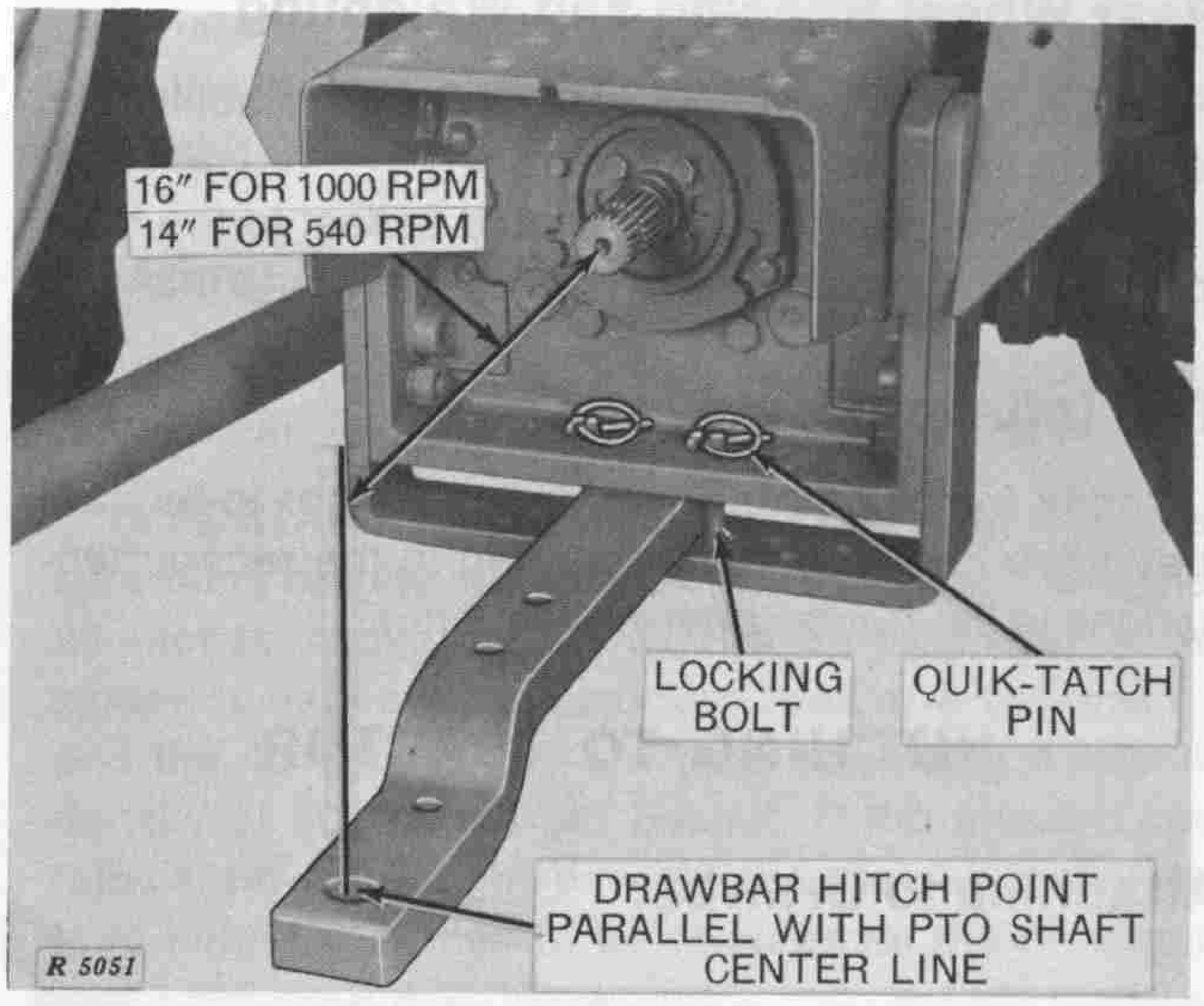
1. Install 3020 Tractor Drawbar (AC13006C) on tractor. The hitch pin hole in the drawbar must be in line with the tractor PTO shaft and must be 14 (540 rpm) or 16 (1000 rpm) inches from the shaft as illustrated on this page.

2. Fasten front of drawbar to tractor with drawbar pin previously removed and 1-inch O.D. x 1-1/2-inch bushing over drawbar pin.

3. Install 2-1/2-inch O.D. x 1-1/4-inch spacers over pins at each side of drawbar to secure drawbar directly in line with tractor PTO shaft.

4. Replace master PTO guard on tractor if it has been removed.

Positioning Drawbar



Position the tractor drawbar as shown with the offset in the drawbar down. The distance from the end of the tractor power take-off to the drawbar hitch pin hole must be 14 inches for 540 rpm PTO operation or 16 inches for 1000 rpm PTO operation. Lock the drawbar in its crossbar, parallel with the centerline of the powershaft, placing the locking bolts on either side of the drawbar.

⚠ **CAUTION: Do not attempt to operate the spreader-tractor combination unless the PTO operating speed of the spreader and tractor are the same.**

NOTE: The 4520, 4620, 5010 and 5020 Tractors are equipped with 1000 rpm PTO drive only. Be sure the spreader is equipped for 1000 rpm PTO operation, when used with these tractors.

PREPARING THE TRACTOR—Continued

Front End Weighting

Provide sufficient weighting to stabilize tractor when operating on hilly land or other adverse conditions. See your tractor operator's manual for front end weighting information.

Rear Wheel Spacing and Weighting

Adjust wheel spacing, for maximum stability, as shown in tractor operator's manual.

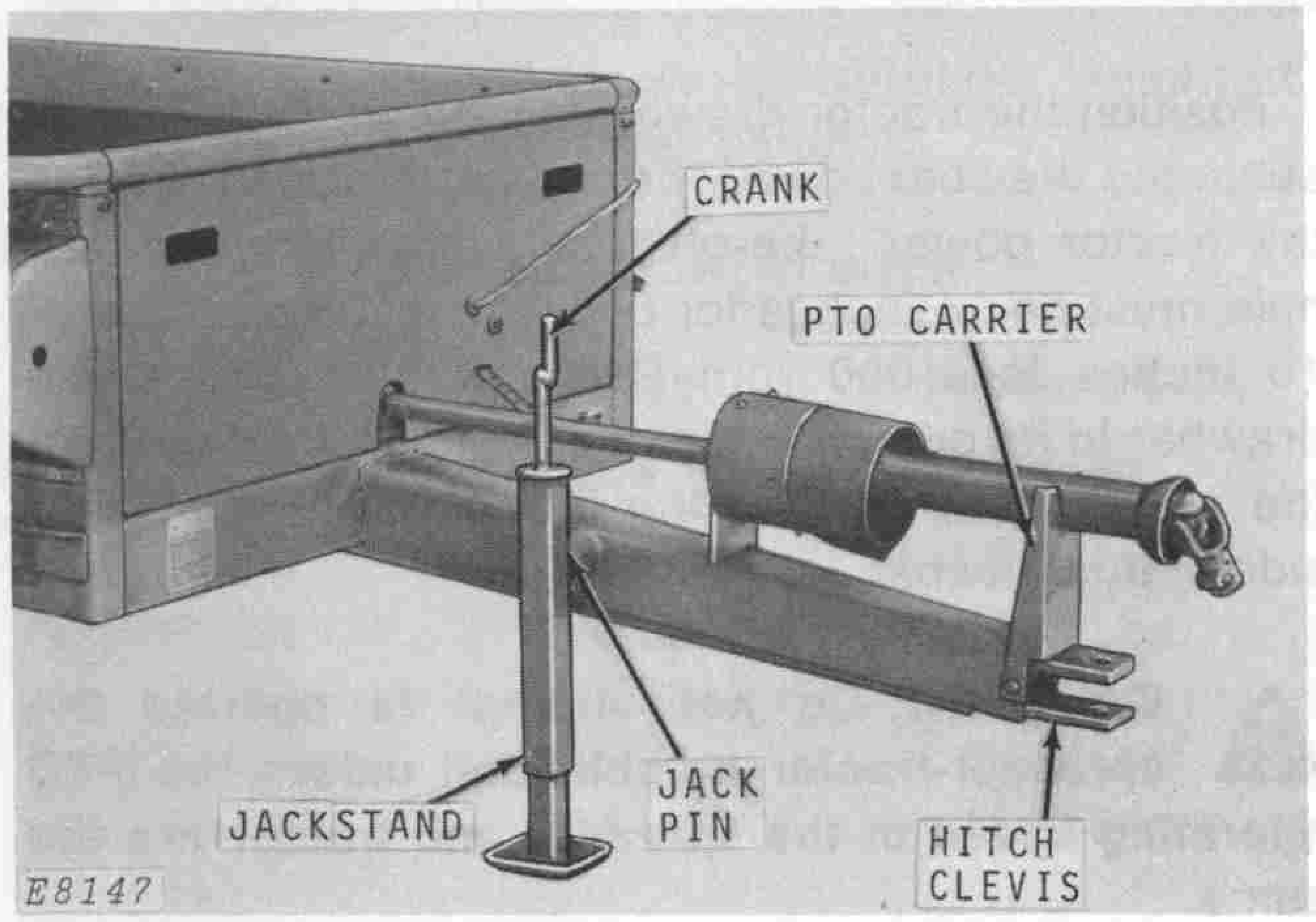
Add rear wheel weights or liquid ballast to the tractor as recommended in the tractor operator's manual.

Tire Inflation

Check front and rear tires on the tractor to be sure they have been inflated according to the recommendations in the tractor operator's manual.

HITCHING TO TRACTOR

Attaching to Drawbar



Carefully back the tractor into position. Make sure the jack pin is in the spreader jackstand. Using the crank on the jackstand, raise or lower the spreader hitch into position to engage the tractor drawbar. Secure the spreader hitch to the tractor drawbar with a hitch pin. Raise jackstand, remove jack pin, and rotate jack to transport position. Replace jack pin and Quik-Lock pin previously removed.

CAUTION: Do not transport the spreader unless the hitch pin is secured and the jackstand is in transport position.

Connecting Telescoping Hookup

The PTO operating speed of the tractor and the spreader must be the same. The tractor half of the powershaft will be equipped with six splines for 540 rpm operation or 21 splines for 1000 rpm operation.

CAUTION: Never hook up a spreader equipped for 540 rpm operation to a 1000 rpm tractor PTO.

Slide the front end of the telescoping hookup onto the tractor powershaft until it is secured with the spring-lock pin.

NOTE: Never use a steel hammer when connecting or removing the telescoping hookup. Keep the hookup and powershaft splines clean.

After making the connection, check to be sure the powershaft spinner shields are free to operate.

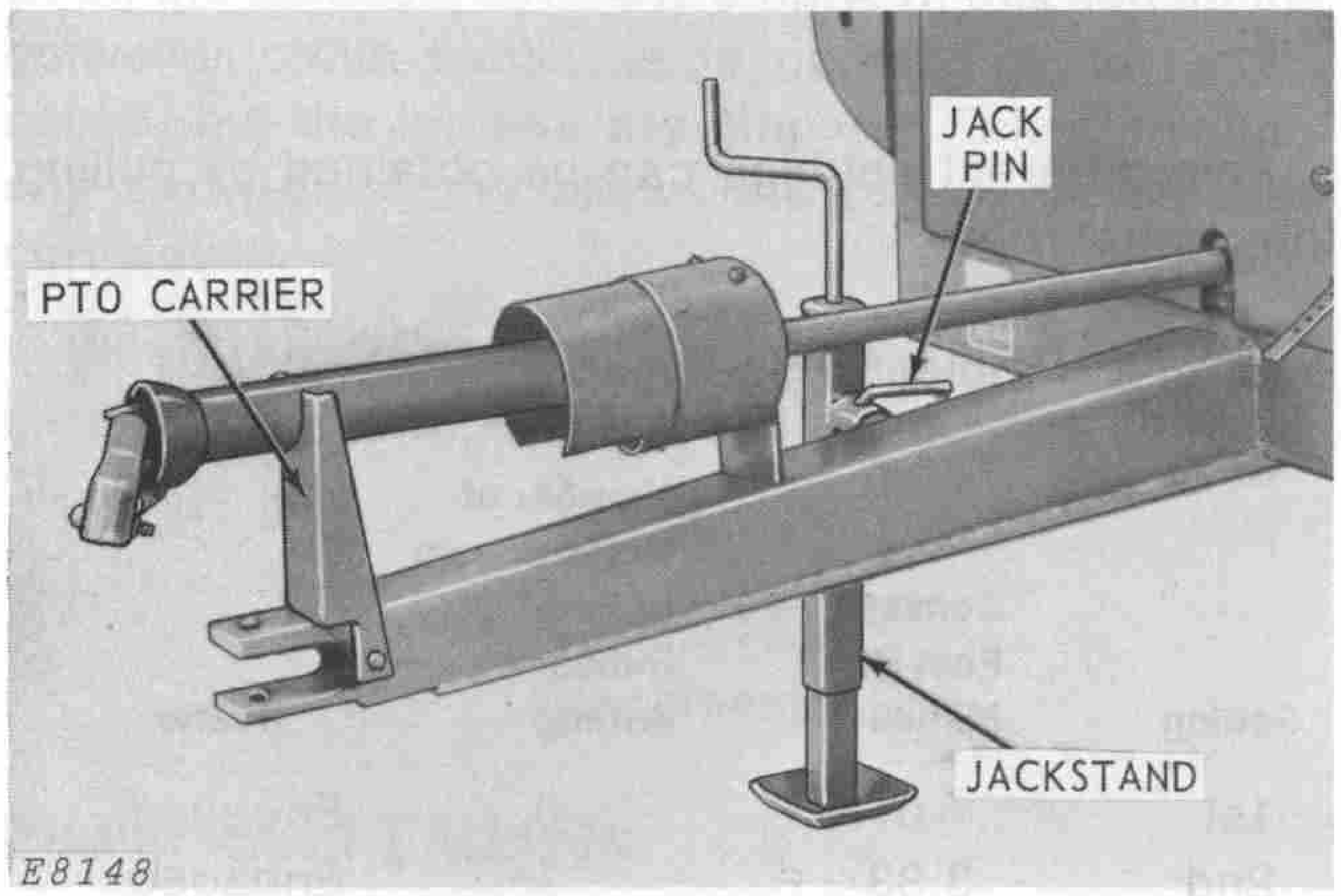
Push the carrier down onto the hitch.

Control Ropes

Attach the spring clip for the feed control rope to the rear of the tractor, at a location that is within easy reach of the operator. The spring clip will release the control rope if the operator should forget to disconnect it.

If the spreader is equipped with a rear endgate, attach the endgate control rope to the tractor in the same manner. Keep the ropes separated as widely as possible to avoid pulling the wrong rope when operating the spreader.

UNHITCHING FROM TRACTOR



When unhitching the spreader, lower the jackstand, insert the jack pin and secure it with the Quik-Lock pin. Turn crank until the weight of the spreader is removed from the tractor drawbar. Disconnect the powershaft and lay it on the PTO carrier before removing the hitch pin.

OPERATING THE SPREADER

Before Loading Spreader

Operate a new spreader for a few minutes before loading to make certain all parts are operating freely.

In cold weather, check to be sure the conveyor chains and flights are not frozen to the bed. Also clean endgate rubber flaps if spreader is so equipped.

Check the bed conveyor chain tension and adjust if necessary, using the adjusting screws at each side of the bed. See page 19 for chain adjusting instructions.

During the break-in period, the conveyor chain may lengthen enough to require adjusting. See page 19.

IMPORTANT: Always be sure the controls are in the first setting before loading the spreader. This will eliminate the possibility of operating the bed conveyor with the beater disengaged and jamming the load against it.

Loading Spreader

Always start to load the spreader at the front, next to the dash. Then continue to load toward the rear.

IMPORTANT: Avoid excessive loading. For best spreading results, do not load the spreader more than 22 inches above the flare. The 34 Spreader is designed to haul up to a maximum load of 4-1/4 tons net and the 40 Spreader 5-1/4 tons net, using a manure density of 60 pounds per bushel. If the manure contains sand and weighs over 60 pounds per bushel, the load height will have to be reduced so the maximum load limit will not be exceeded.

Be sure tractor drawbar and support are heavy enough to support the recommended load. See page 4 for tractor requirements. If a smaller tractor with smaller drawbar is used, reduce the load in proportion to the drawbar capacity.

OPERATING THE SPREADER—Continued

Unloading Spreader

CAUTION: Be sure no one is standing near the rear of the spreader before placing the spreader in operation.

Before engaging the PTO, be sure the control mechanism is in the first setting. To reach the first setting, pull the control rope out as far as possible and release it.

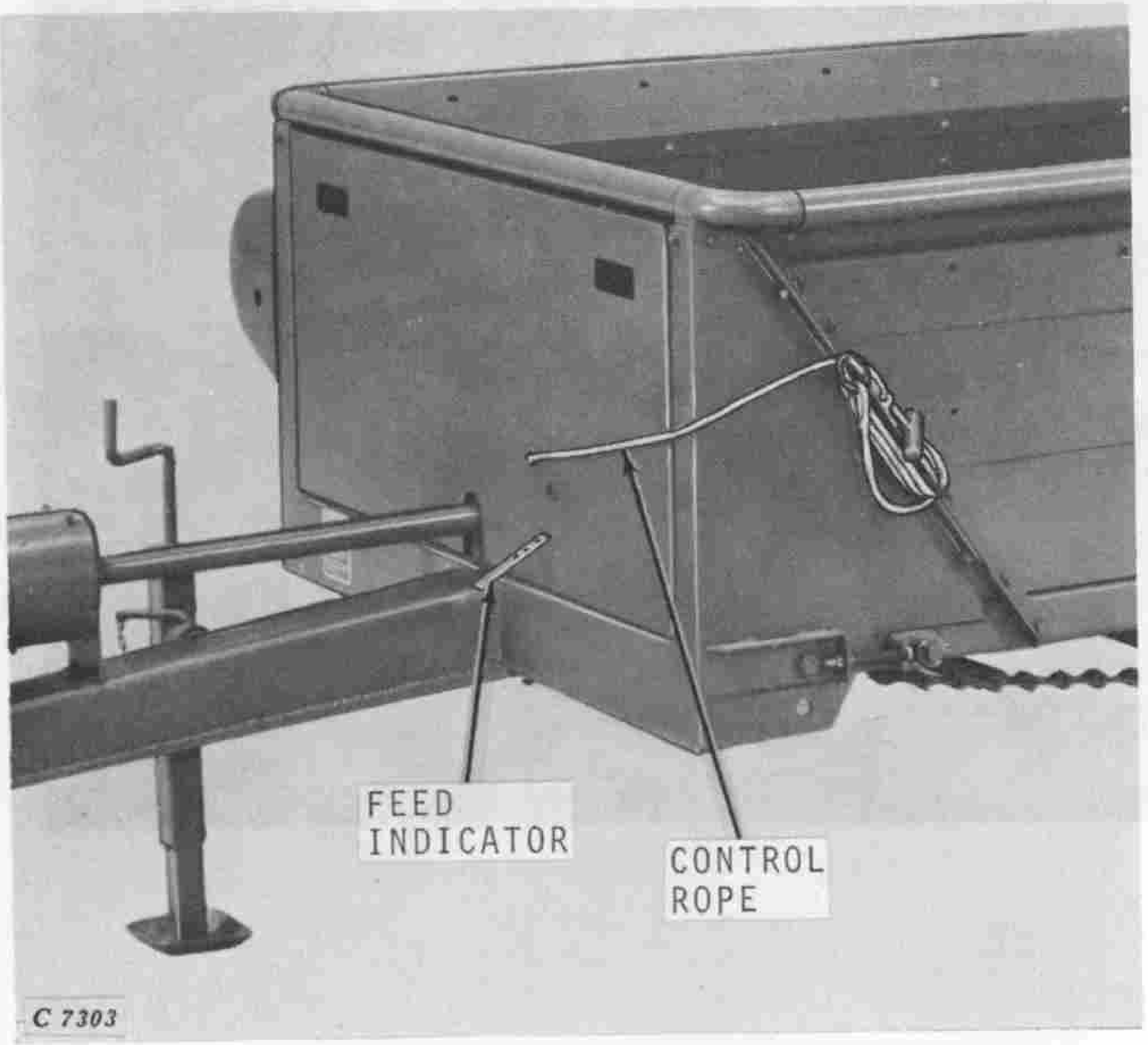
Always engage the tractor PTO slowly to avoid slipping the clutch when starting to unload. If the clutch should slip, you will hear a loud clicking sound. Determine the cause and readjust the spring clutch. Instructions for readjusting the spring clutch are given on page 17.

The rate of unloading can be changed by varying the feed settings and the tractor PTO and ground speeds. The second through the fourth feed settings are used to unload the spreader. When the spreader is nearly empty, the fifth setting allows the conveyor chain to operate at its fastest speed, but the beaters are disengaged, eliminating any throw-back and allowing the bed to be emptied completely. During cold weather, be sure to empty the bed completely to prevent the conveyor chain from freezing to the bed.

After the bed is emptied, disengage the tractor PTO and pull the feed control rope all the way to return to the first setting.

NOTE: The FEED INDICATOR may not show that the control is in the first setting until the PTO is re-engaged.

Spreader Controls



The bed conveyor chain and the beater are both controlled by a single rope operated from the tractor seat.

Five different settings can be obtained by pulling the control rope.

Control and Indicator Settings

Setting	Conveyor Feet Per Minute	Number of Holes Shown In Feed Indicator Setting	Beater
1st	0	0	Engaged
2nd	3.33	1	Engaged
3rd	6.66	2	Engaged
4th	9.99	3	Engaged
5th	9.99	4	Disengaged

A feeder indicator in the front of the spreader shows which setting the feed control is in. In the first setting no holes will be visible in the feed indicator. See the chart for the number of holes that will be visible in the indicator for the various feed settings.

NOTE: When returning to the first setting, the feed indicator may not show the first setting until the tractor PTO is re-engaged.

In the first setting, the beater will be engaged, but the bed conveyor chain will not move. The first setting is reached by pulling the rope as far as possible, and then releasing the rope.

IMPORTANT: Always place the feed control in the first setting before loading. This will eliminate the possibility of operating the conveyor chain with the beater disengaged and jamming the load against it.

To obtain any of the other settings, pull the rope lightly until the indicator shows the next setting.

If you wish to change from a faster rate of feed to a slower rate, disengage the tractor PTO and pull the control rope as far as possible to return to the first setting. Re-engage the tractor PTO and move to the desired setting.

The fifth setting is used for cleaning out the bed when the spreader is nearly empty. In this setting the conveyor chain continues to operate at its fastest speed, but the beaters are stopped. This eliminates any throw-back and allows the bed to be emptied completely.

When the spreader is equipped with a rear endgate, a second rope is used to control the endgate. See page 10.

ENDGATES
(Attachment)

Power-Seal Endgate

The power-seal endgate helps contain semi-liquid manure while transporting and spreading.

The power-seal endgate is raised by a telescoping push rod which is actuated by the tractor remote hydraulic cylinder. See your tractor operator's manual for information regarding operating the remote cylinder.

The power-seal endgate lowers by its own weight when the cylinder rod is retracted, thus eliminating the danger of damage to the endgate or spreader should an object lodge under the endgate.

When spreading semi-liquid manure, raise the endgate in increments to meter the manure to the beater.

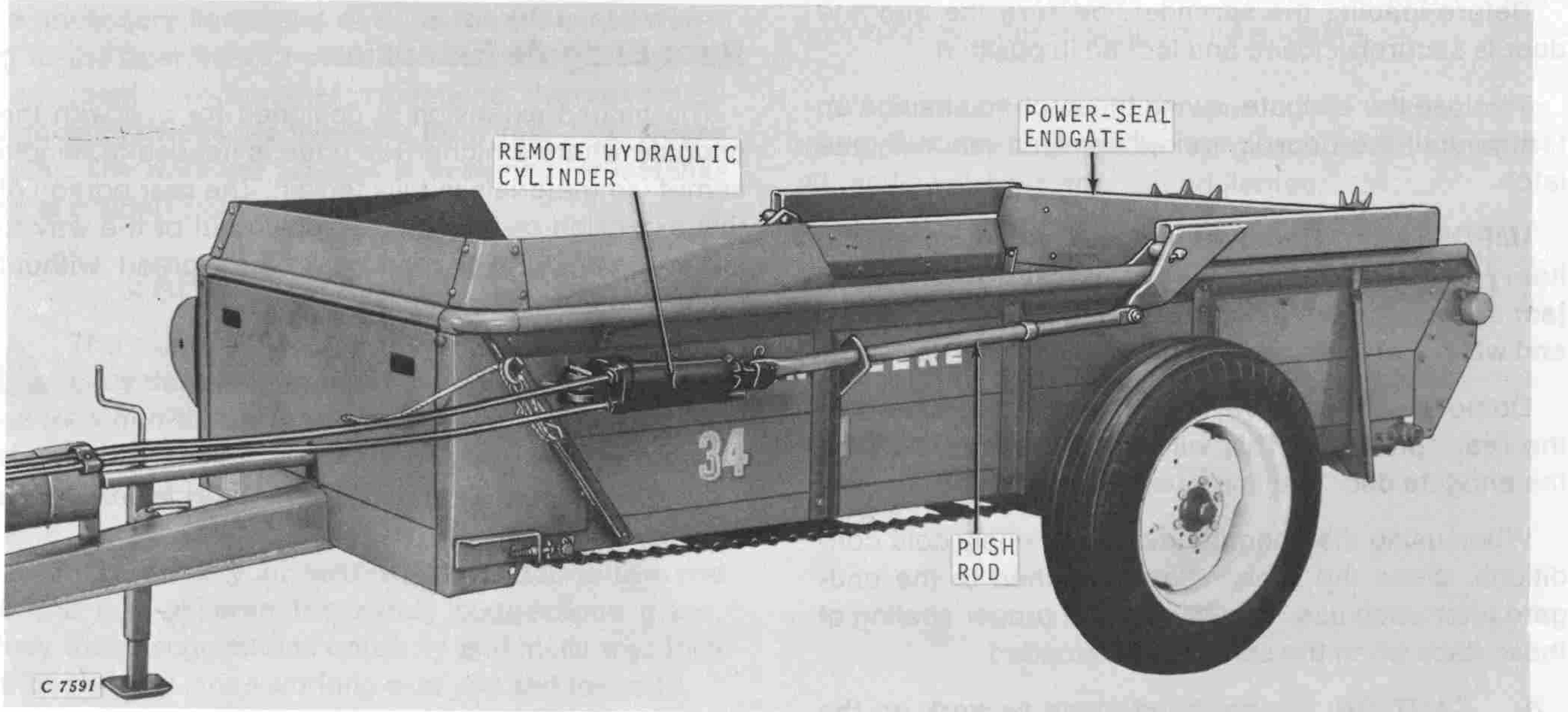
If a spreader equipped with a power-seal endgate is to be used with coarse stringy manure, never pile the manure higher than the bottom of the endgate when fully raised.

When spreading coarse manure, raise the endgate to its full height to prevent manure from being carried against the endgate and damaging it.

NOTES: 1. Do not operate the conveyor chain with the power-seal endgate in the fully closed position.

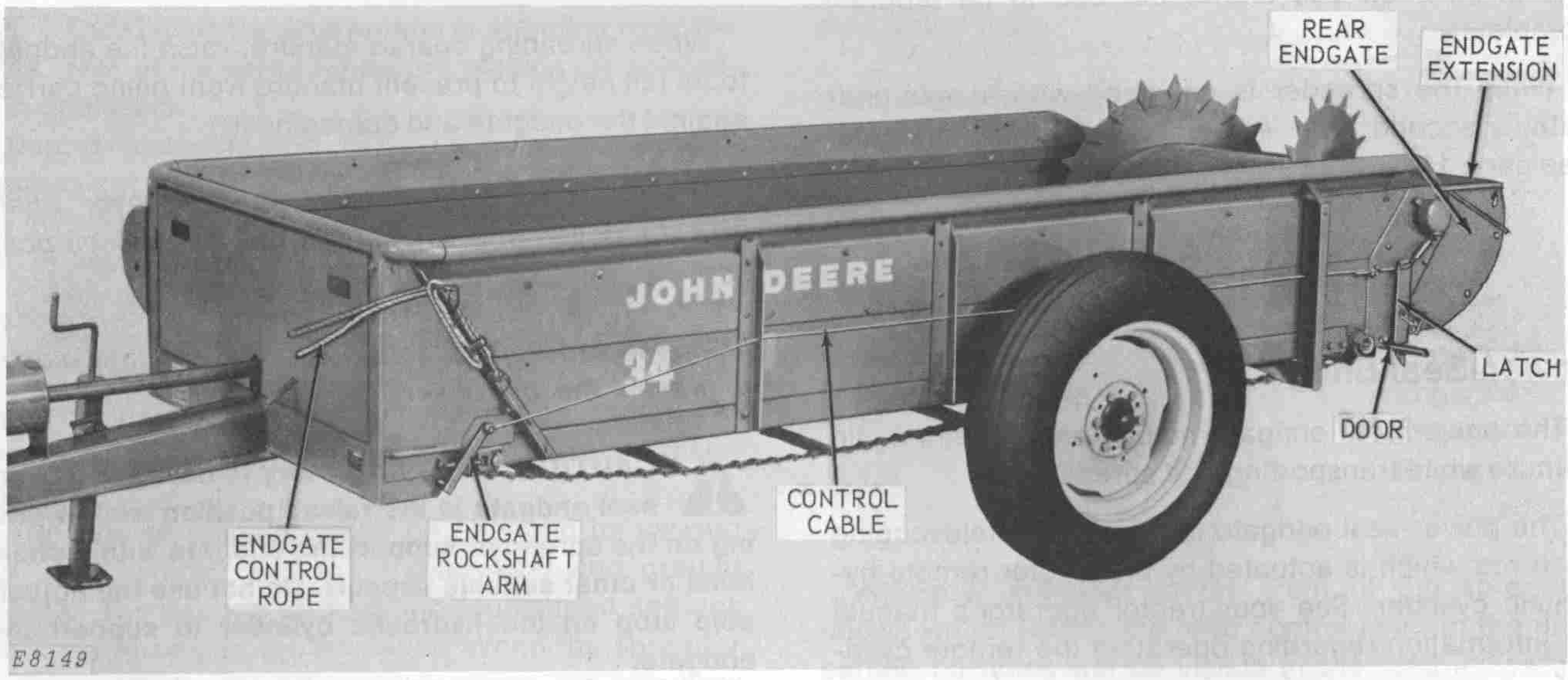
2. When transporting a spreader equipped with an endgate, keep the endgate closed to prevent the loss of semi-liquid manure.

⚠ **CAUTION: If it is necessary to have the power-seal endgate in the raised position while working on the spreader, support the endgate with a chain hoist or other suitable support. Do not use the adjustable stop on the hydraulic cylinder to support the endgate.**



ENDGATES—Continued
(Attachment)

Rear Endgate



The rear endgate helps contain semi-liquid manure while transporting the spreader. Also, the rear endgate permits the spreader to unload loose, strawy dairy manure with the endgate in place.

The rear endgate door is controlled by a trip rope located at the front of the spreader. Attach the endgate control rope to a convenient location on the tractor.

Before loading the spreader, be sure the endgate door is securely closed and locked in position.

To close the endgate, swing the latch rod handle up firmly, until the door is locked firmly in place by the latch.

IMPORTANT: Remove endgate when spreading heavy, packed manure. Heavy, packed manure will jam against the endgate, preventing proper spreading and will result in damage to the spreader.

Do not stop the conveyor with a flight positioned on the rear sprockets. This will make it easier to close the endgate door and improve sealing.

When using the endgate under extremely cold conditions, clean the rubber flaps attached to the endgate after each use. This will assure proper sealing of these flaps when the spreader is reloaded.

⚠ **CAUTION: Do not hand-clean or work on the spreader without first disengaging tractor PTO and shutting off tractor engine.**

The endgate can be quickly and easily removed or reinstalled by one man with a minimum of effort. This can be done by loosening the bolts in the lower endgate brackets, and lifting the endgate from the spreader.

When transporting a spreader equipped with an endgate, keep the endgate closed to prevent the loss of semi-liquid manure.

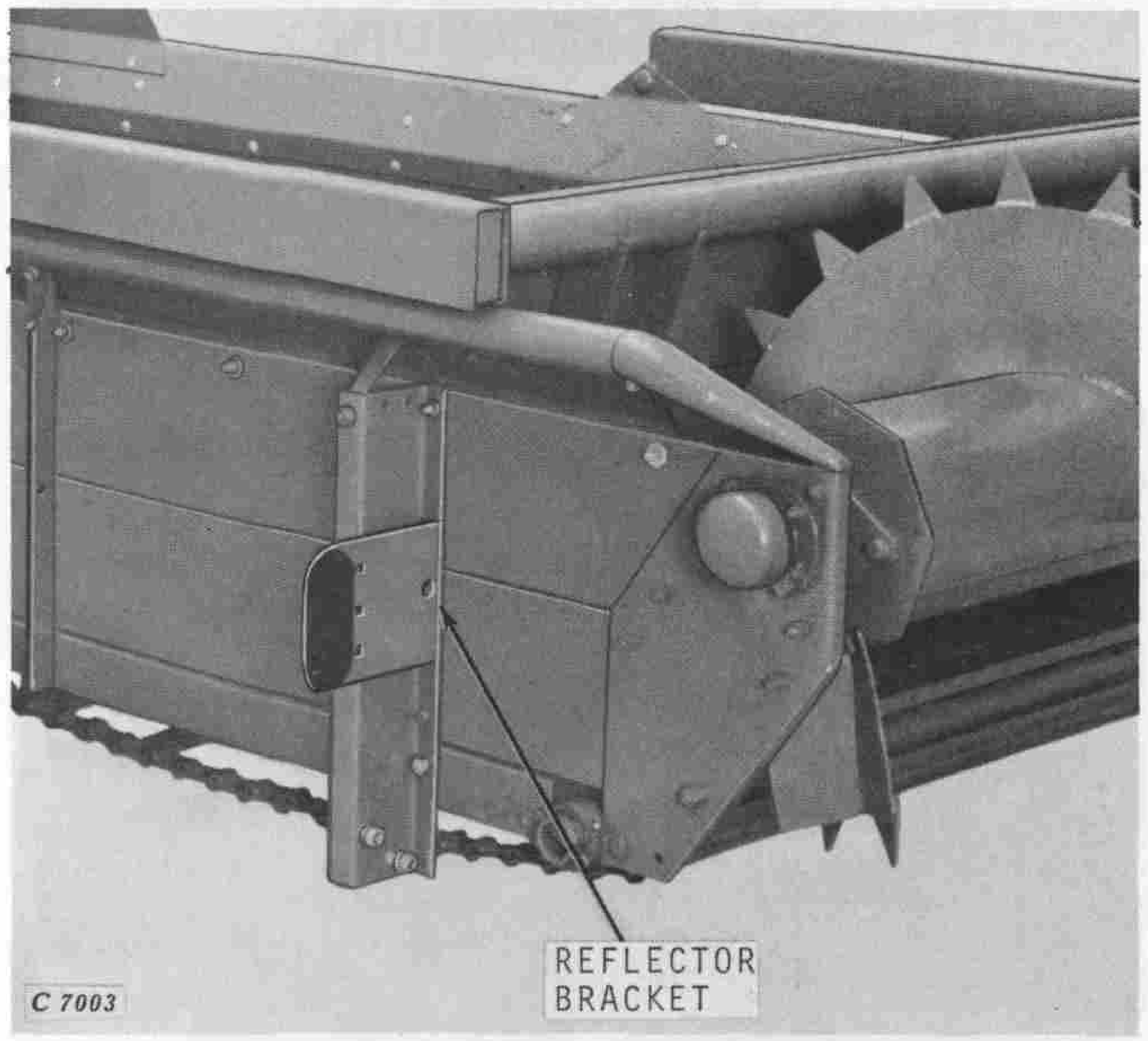
Rear Endgate Extension

The hinged extension is designed for use with the endgate where a higher top edge is needed to handle semi-fluid materials in hilly terrain. The rear portion of this extension can be pivoted down out of the way to allow loose, strawy manure to be spread without damaging the spreader.

TRANSPORTING

Before transporting the spreader, raise the jackstand to transport position and secure it in place with the jack pin and Quik-Lock pin.

CAUTION: Be sure to use a tractor capable of handling your spreader when in hilly country. Always transport your loaded spreader at a slow and safe speed. Check your tractor operator's manual for proper front end weighting.



CAUTION: When transporting the spreader on a road or highway at night or during the day, use accessory lights and devices for adequate warning to the operators of other vehicles. In this regard, check local governmental regulations. Various safety lights and devices are available from your John Deere dealer. The reflector bracket is designed for installation of a safety light.

SAFETY SUGGESTIONS

The safety of the operator was one of the prime considerations in the minds of John Deere engineers when this spreader was designed. Shielding, simple adjustments, and other safety features were built into the spreader wherever possible.

You can make your farm a safer place to live and work if you observe the safety suggestions given. Study these suggestions carefully and insist that they be followed by those working with you and for you.

All machinery should be operated only by responsible persons who have been delegated to do so.

Only one person, the operator, should be allowed on the tractor when tractor and spreader are in operation. Never ride, or permit others to ride on the tractor drawbar or spreader hitch.

Before placing the spreader in operation, be sure no one is standing near the spreader.

Always keep the tractor PTO clutch lever in neutral or disengaged position, except while unloading the spreader.

Keep hands, feet, and clothing away from power-driven parts.

Keep all guards, shields and safety devices in place at all times while the spreader is operating. Always stop the spreader and shut off the tractor engine before removing any of these parts.

All spinner shields must be free to spin at all times. Never check or inspect spinner shields while tractor engine is running.

Do not hand-clean, unclog, service, lubricate, or perform other work on the spreader without first disengaging tractor PTO and shutting off tractor engine.

If it is necessary to have the power-seal endgate in the raised position while working on the spreader, support the endgate with a chain hoist or other suitable support. Do not use the adjustable stop on the hydraulic cylinder to support the endgate.

When cleaning machine parts with kerosene or diesel fuel, be sure the working area is well ventilated, and away from sparks and flames.

If spreader is transported on a public road, see instructions under "Transporting" regarding use of accessory lights and devices.

Lubrication

The economical and efficient operation of any machine is dependent upon regular and proper lubrication of all moving parts with a quality lubricant.

The period recommended is based on normal conditions; severe or unusual conditions may require more frequent lubrication or oil changes.

Clean grease fittings before using grease gun. Replace any lost or broken fittings immediately.

⚠ **CAUTION: Do not clean, lubricate, or adjust your spreader while it is in motion.**

NOTE: Lubrication instructions are the same for both the 34 and 40 Spreaders.

SYMBOLS

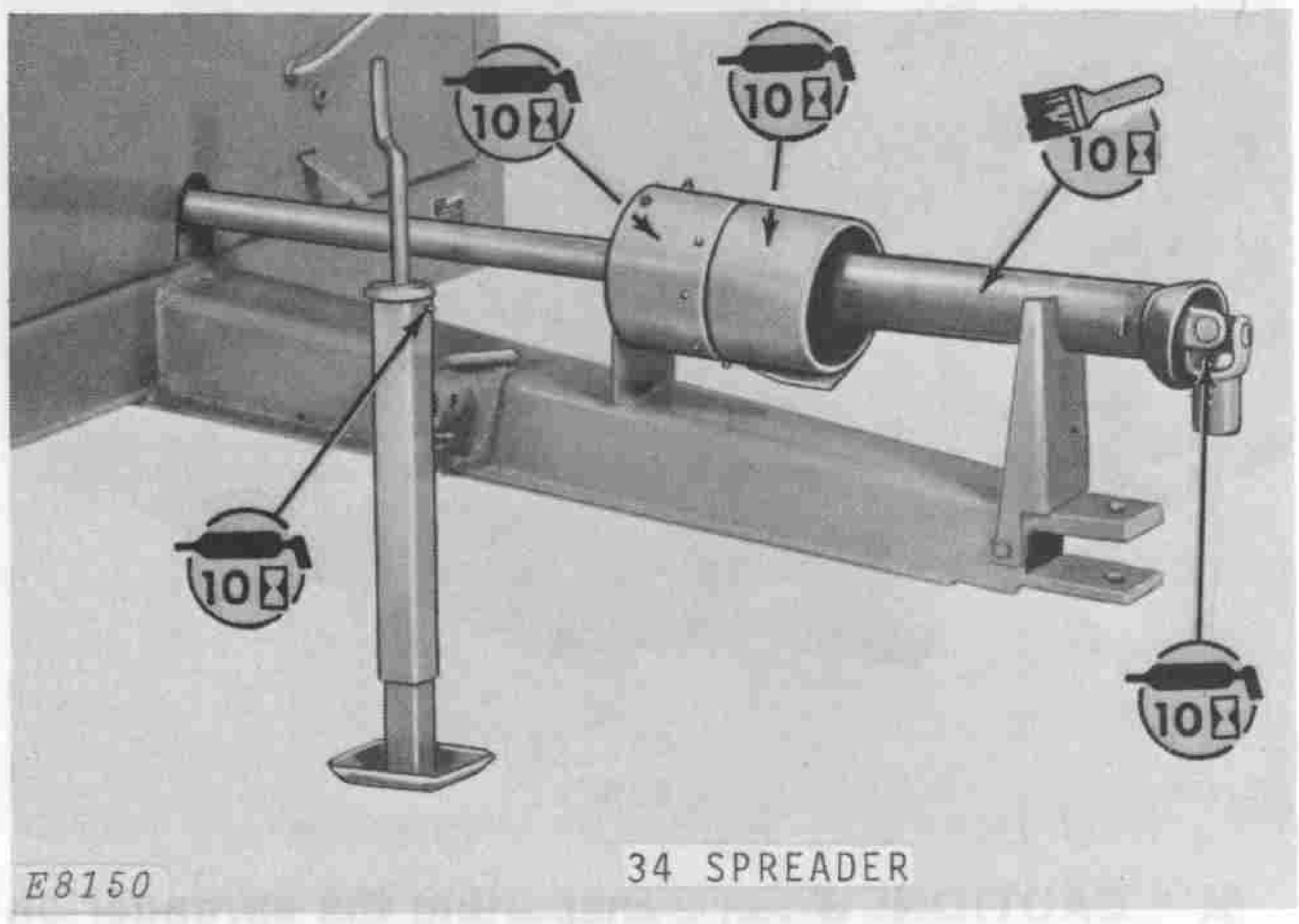
10 Lubricate with John Deere Multi-Purpose Lubricant or an equivalent SAE multipurpose-type grease at hourly intervals indicated on the symbols.

10 Lubricate with SAE 20 or heavier oil at hourly intervals indicated on the symbols.

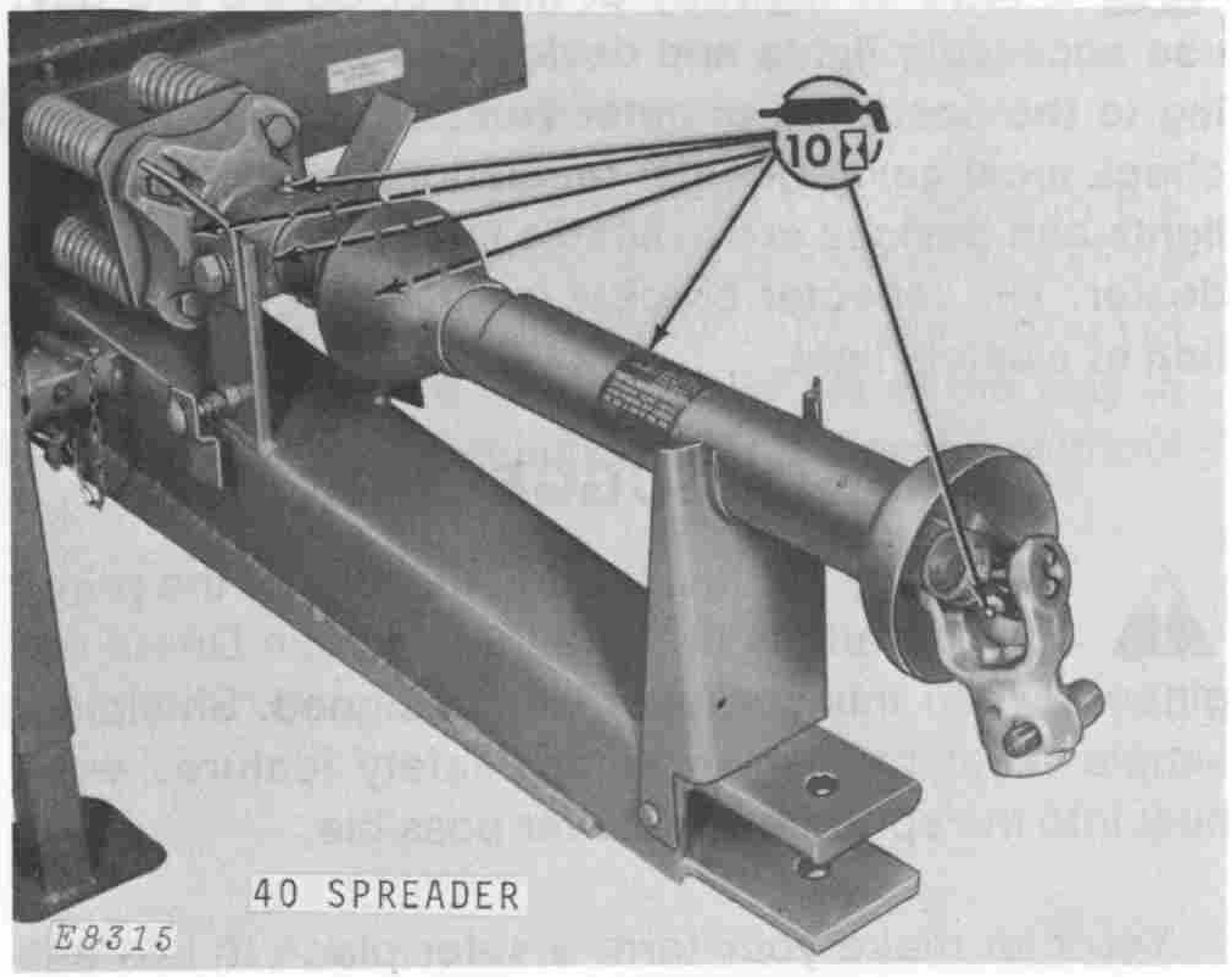
10 Brush with John Deere Multi-Purpose Lubricant or an equivalent SAE multipurpose-type grease at hourly intervals indicated on symbols.

EVERY 10 HOURS

Hookup, Powershaft, Jackstand, and Spring Clutch

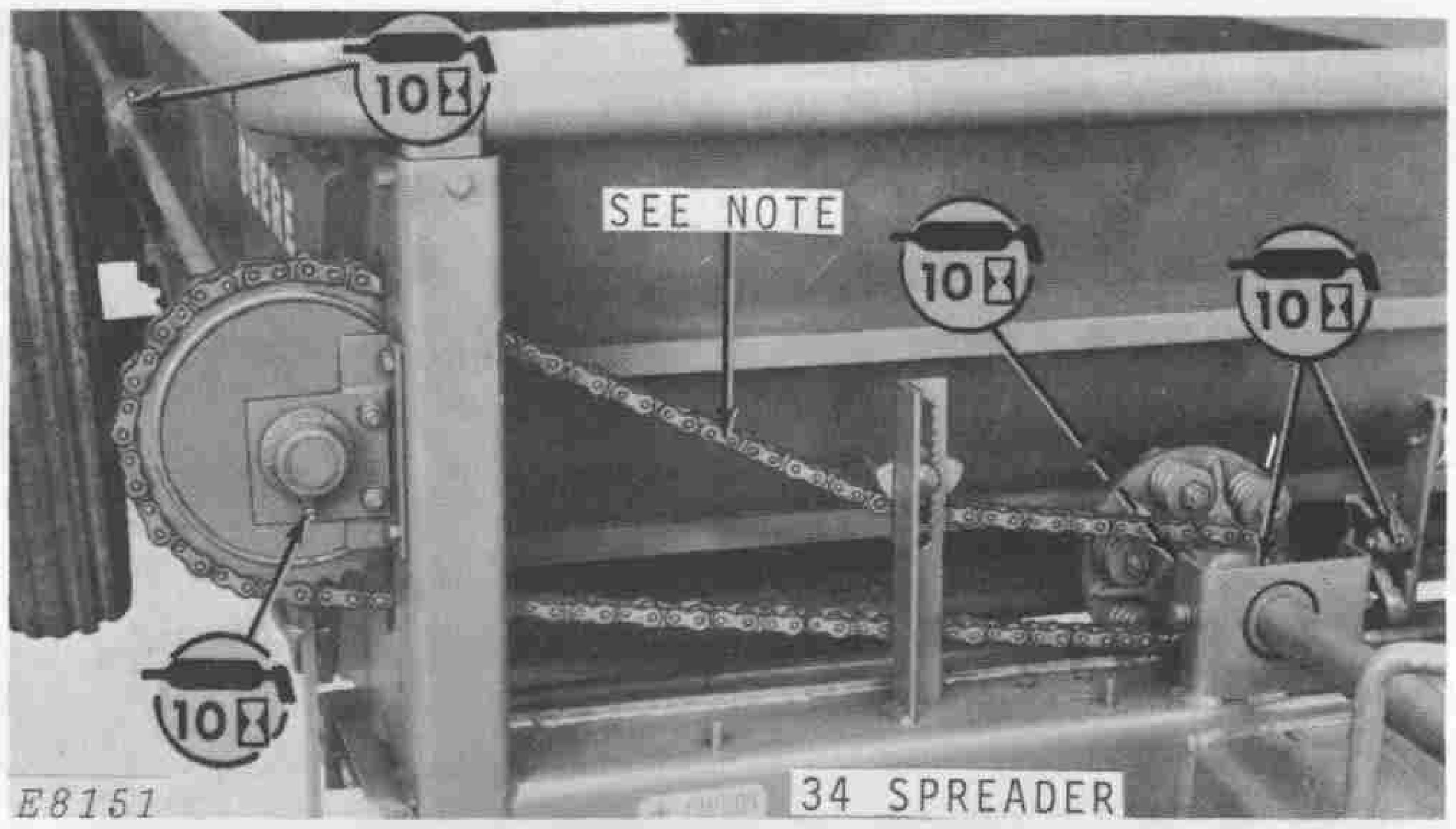


E8150 34 SPREADER



40 SPREADER E8315

Rear Powershaft, Spring Clutch, Side Shaft Bearings, Main Drive Chain, and Feed Control Pawl



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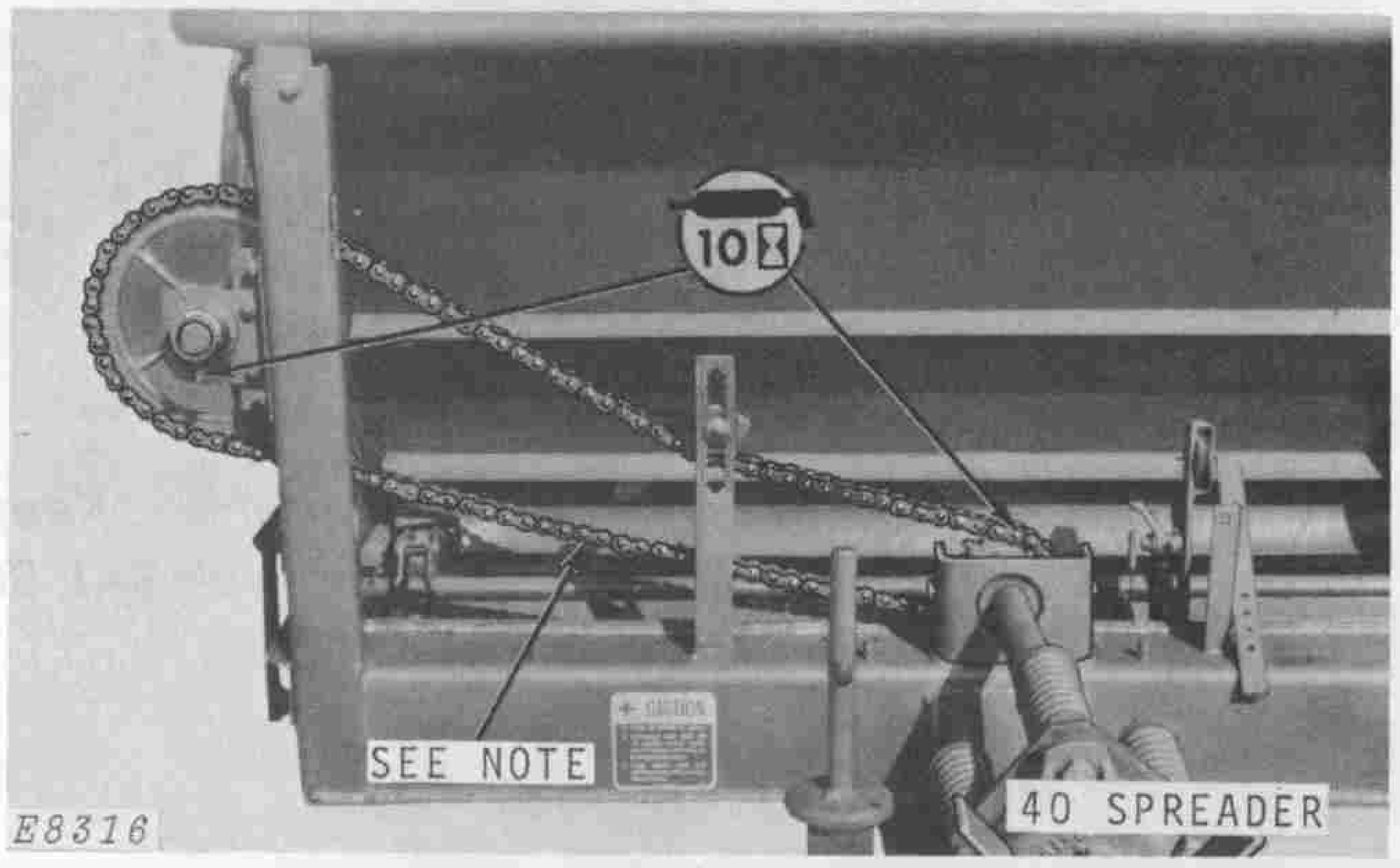
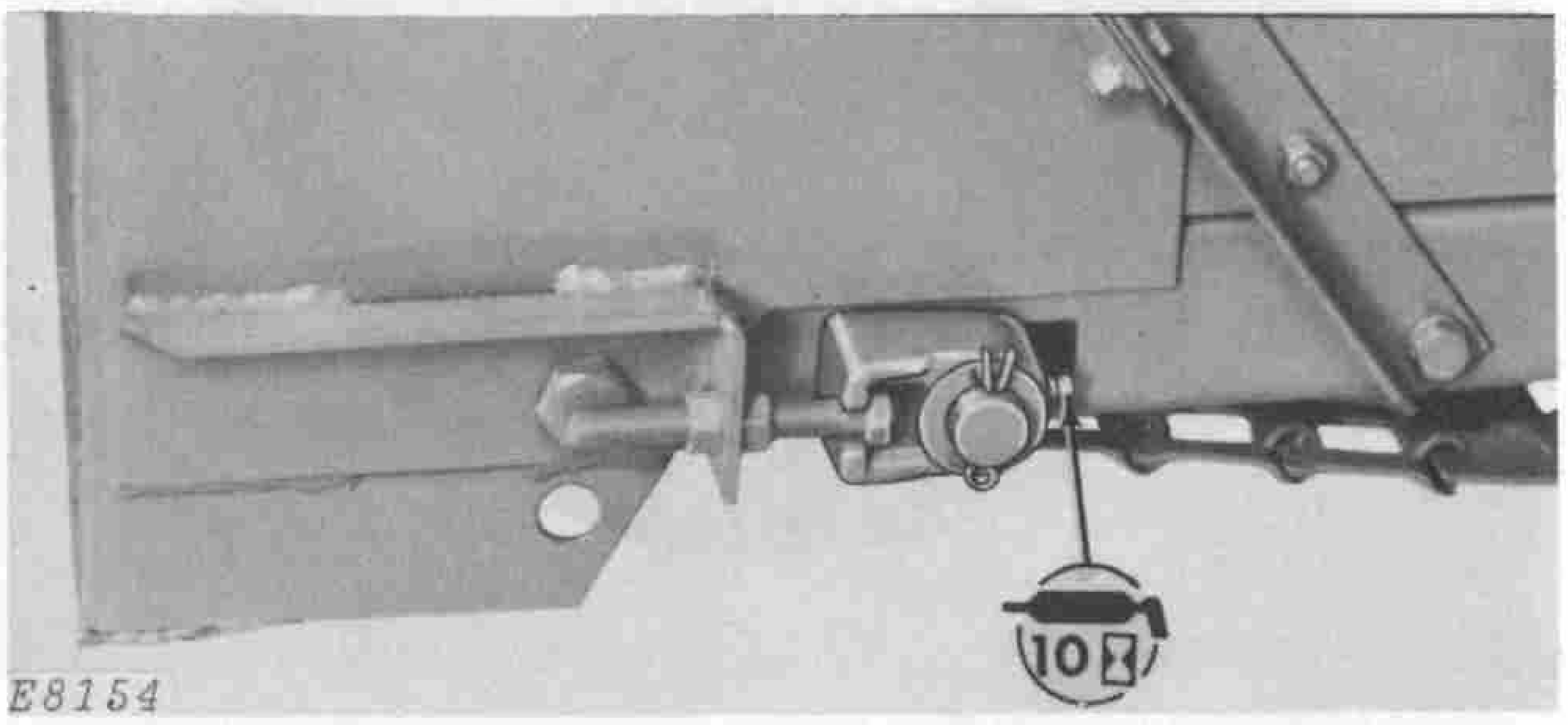


(Shield and Front Sheet Removed for Illustration Purposes)

NOTE: Lubricate chains immediately after operation when the chains are still warm. Let the machine stand idle for a short period to insure effective oil penetration, resulting in longer chain life.

IMPORTANT: Liberally apply SAE 30 or heavier oil to chains every 10 hours of operation.

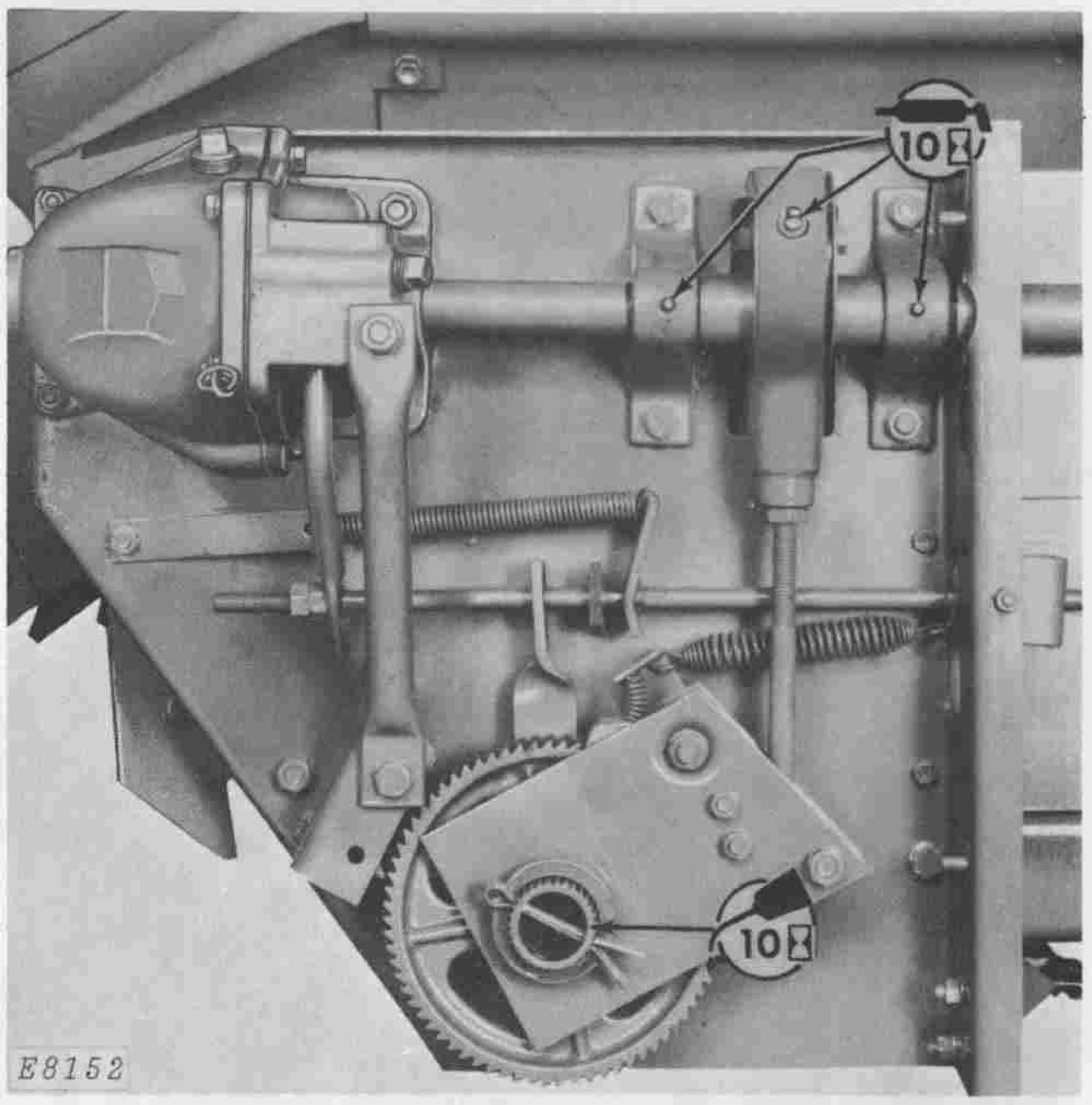
Front Conveyor Shaft Bearings



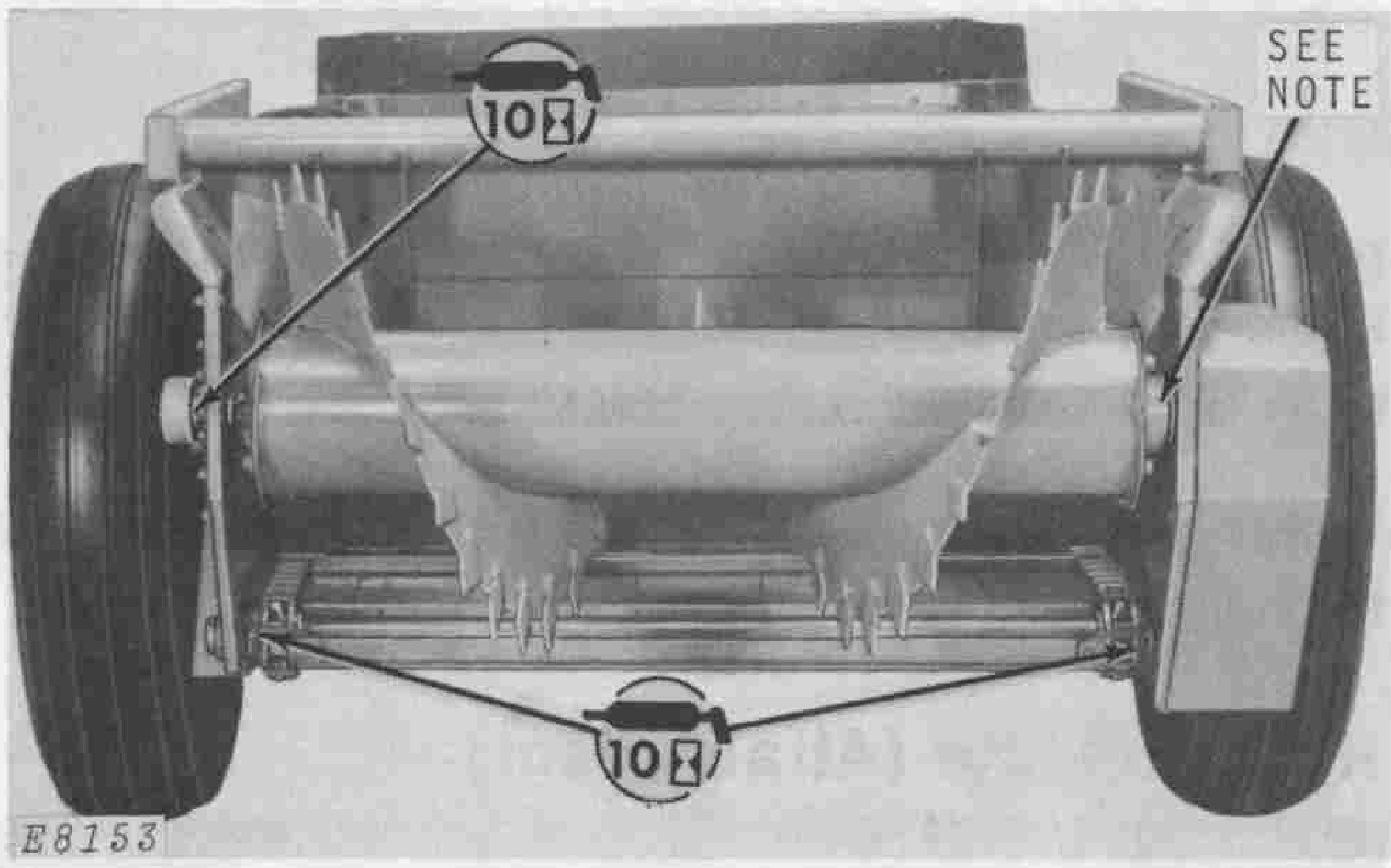
(Left Side Illustrated)

NOTE: Lubricate both sides.

Eccentric and Pillow Block

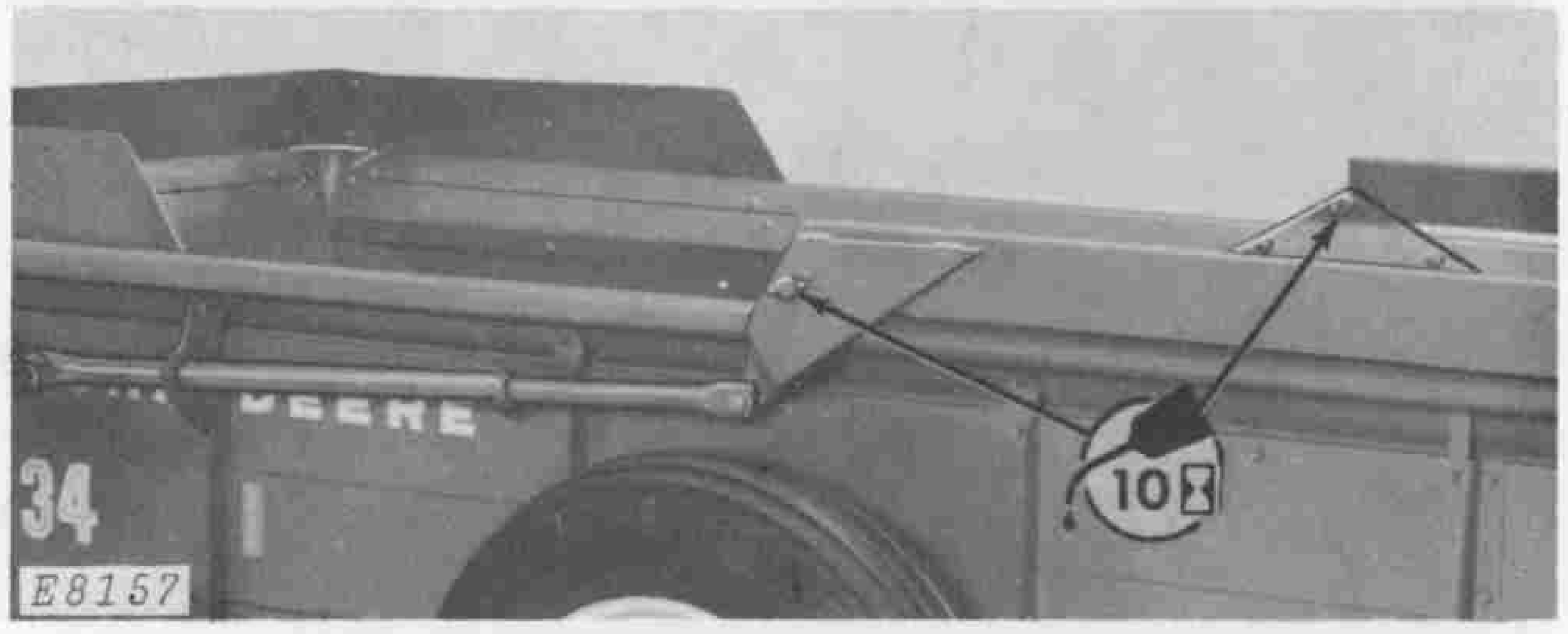


Beater and Rear Conveyor Shaft and Bearings



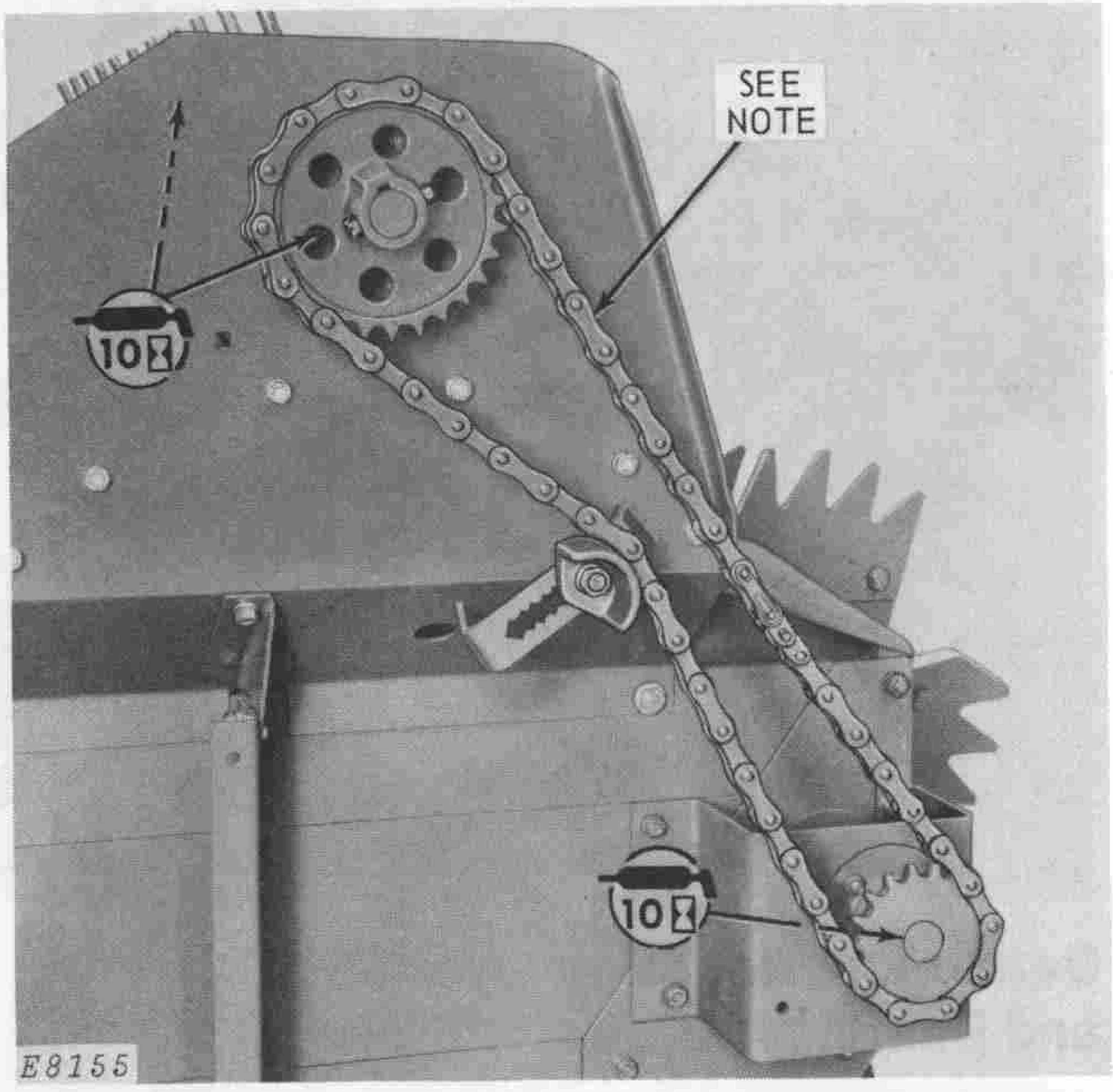
NOTE: A grease fitting is provided to seal cavity in drive hub from dirt and moisture. Fill every 10 hours of operation until grease appears around hub.

Power-Seal Endgate (Attachment)



EVERY 10 HOURS—Continued

Upper Beater (Attachment)

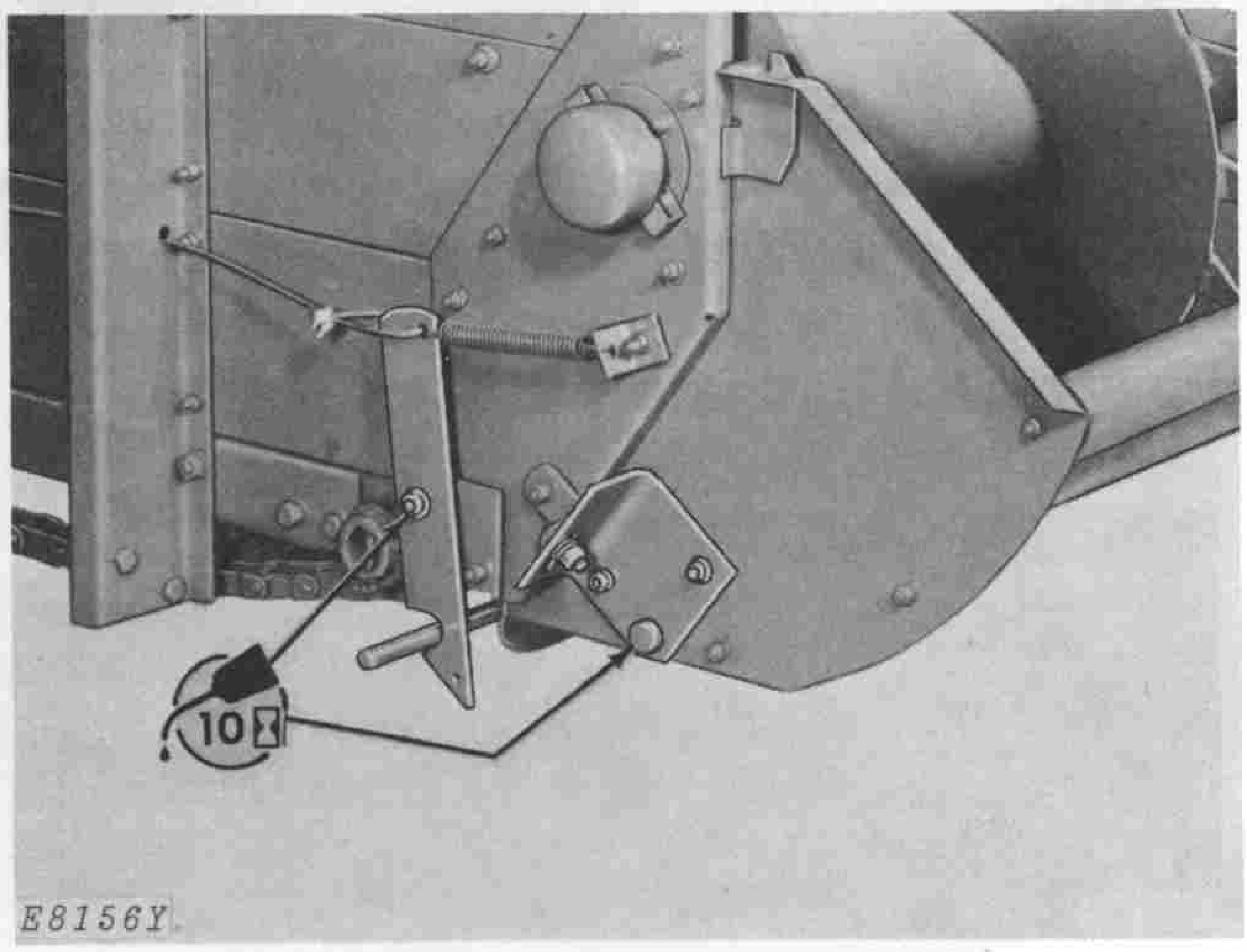


(Shield Removed for Illustration Purposes)

NOTE: Lubricate chains immediately after operation when the chains are still warm. Let the machine stand idle for a short period to insure effective oil penetration, resulting in longer chain life.

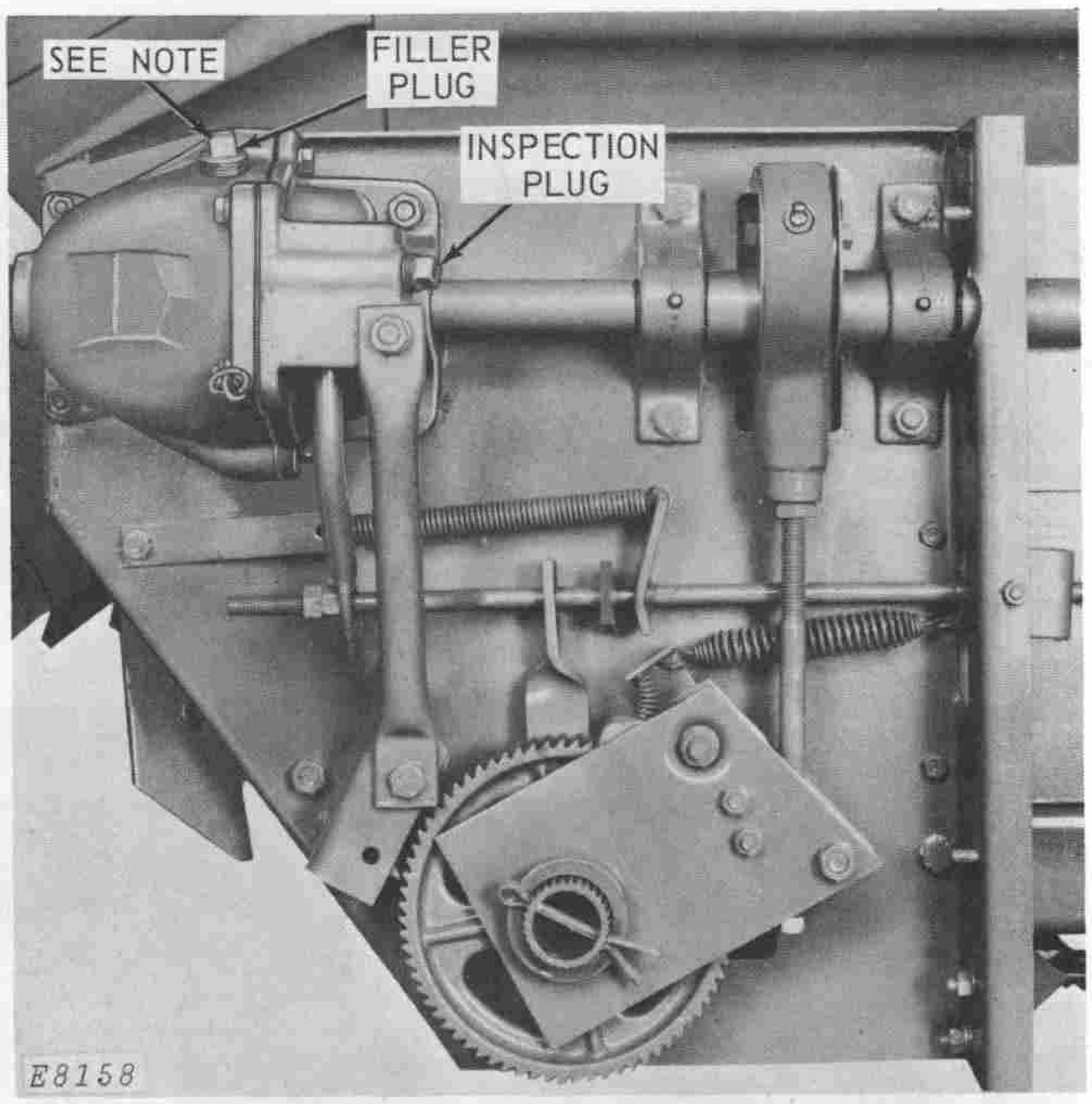
IMPORTANT: Liberally apply SAE 30 or heavier oil to chains every 10 hours of operation.

Rear Endgate (Attachment)



EVERY 50 HOURS

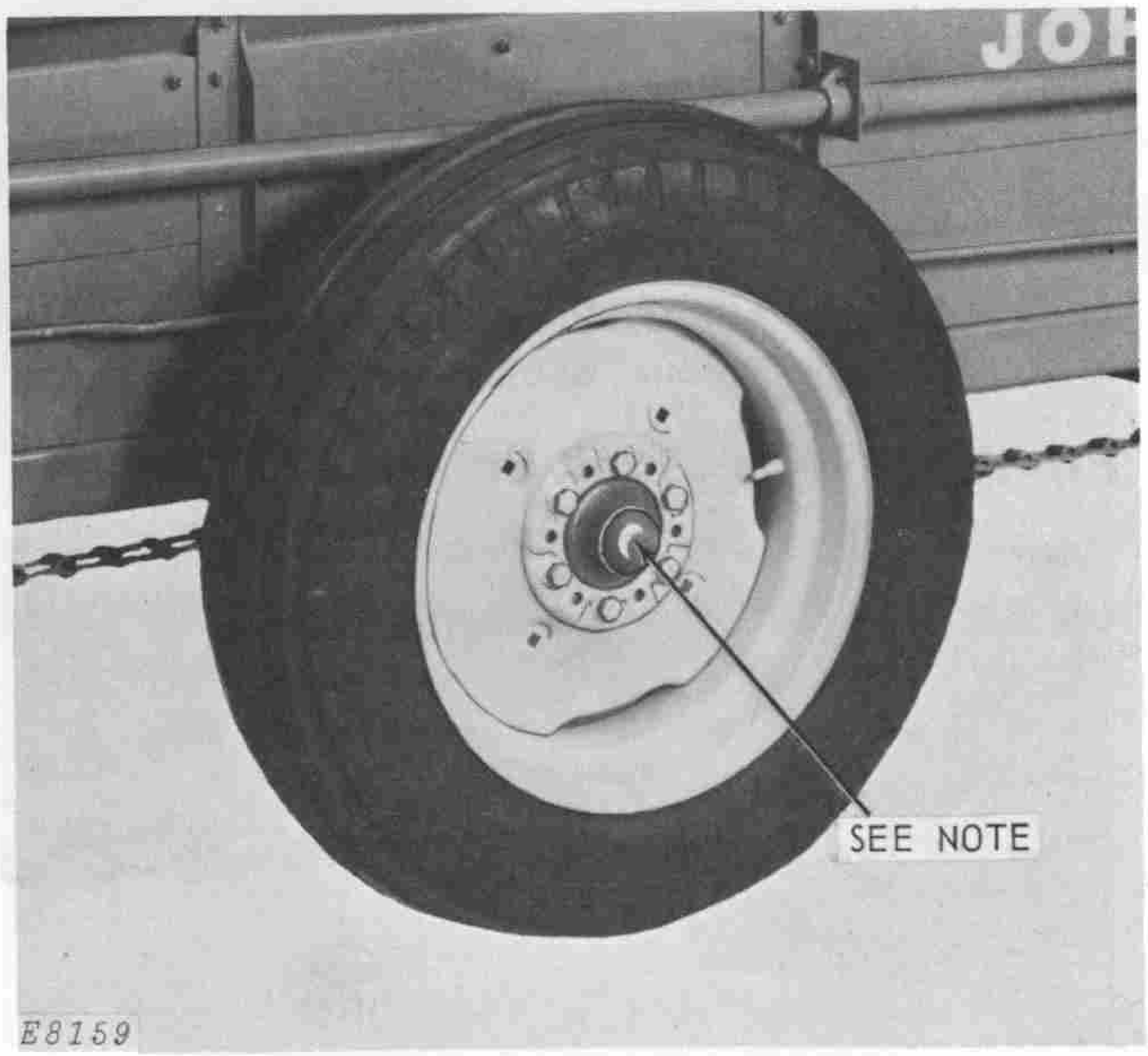
Gear Case



NOTE: Check every 50 hours of operation. Keep gear case filled to level of inspection plug with SAE 80 multipurpose-type gear lubricant.

ONCE EACH SEASON

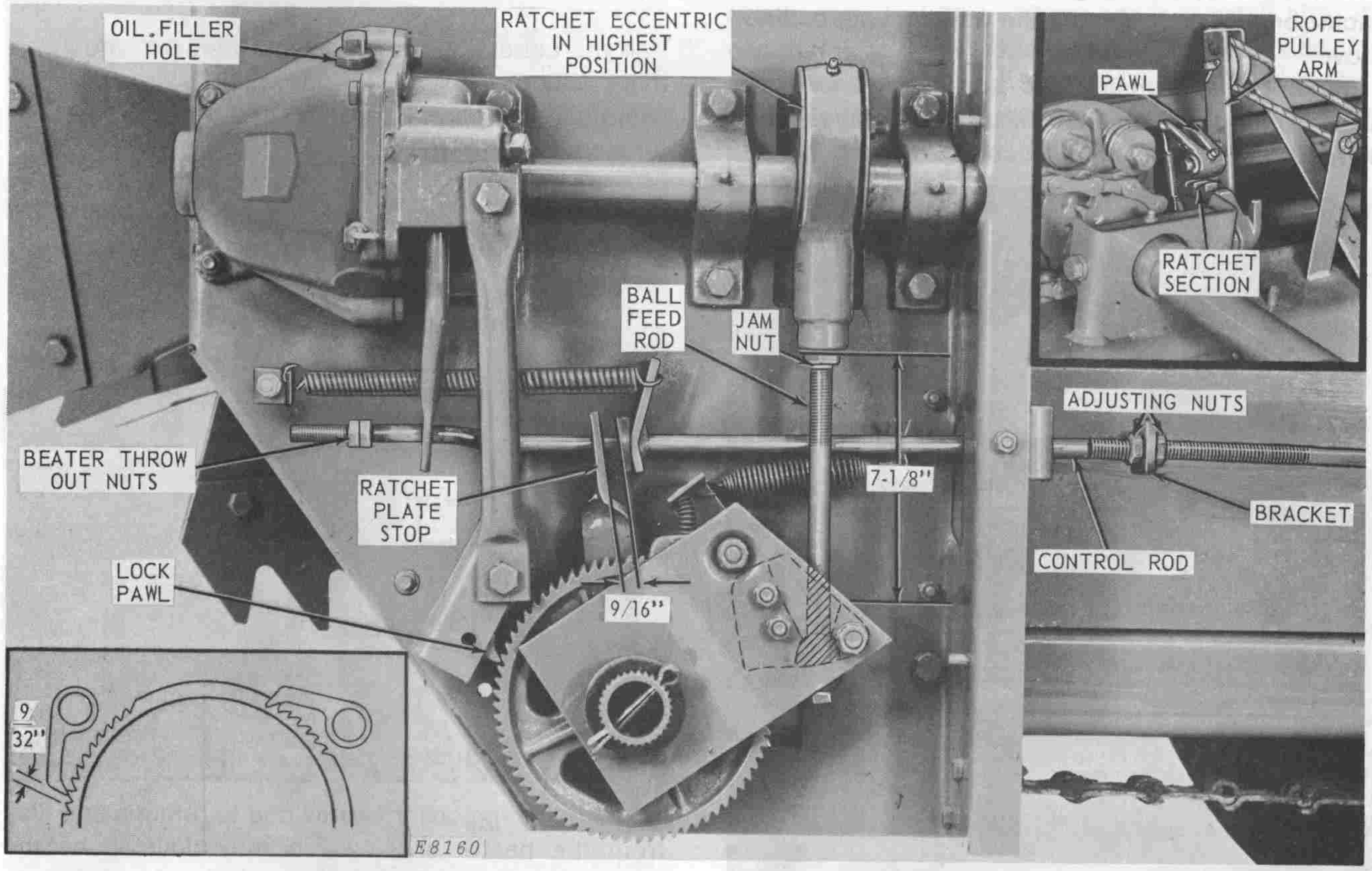
Wheel Bearings



NOTE: Inspect and repack wheel bearings with wheel bearing grease once each season.

Service

FEED CONTROL



CAUTION: Disengage all power and shut off tractor engine before adjusting the spreader.

Place the feed control in first setting. The first setting is obtained when the pawl, **at the front of the spreader,** is not engaging a tooth on the ratchet section. The rope pulley arm will be toward the rear of the spreader.

Turn the beater backward by hand until the ratchet eccentric is in its highest position.

Loosen jam nut on ball feed rod and adjust ball feed rod so there is a 9/32-inch gap between lock pawl and previous tooth (see inset). The distance between the bottom of the eccentric and the top of the ball carrier must be approximately 7-1/8 inches.

Tighten jam nut.

Adjust control by loosening one nut while tightening the other nut until the distance between the shock absorbing washer (washer against control rod stop) and ratchet plate stop is 9/16 inch. Lock rod by tightening both nuts against the control rod bracket.

Pull the control rope to the fourth setting (three holes showing in feed indicator at front of spreader).

Remove the oil filler plug in gear case and observe the clutch jaws through the oil filler hole. Turn beater throw-out nuts until clutch jaws just begin to separate, then back off nut 1/2 turn. Tighten jam nuts together.

Pull the control rope to the fifth setting (four holes showing in feed indicator at front of spreader) and inspect to see that clutch jaws are separated at least 1/8 inch when beater is turned backward. Replace oil filler plug.

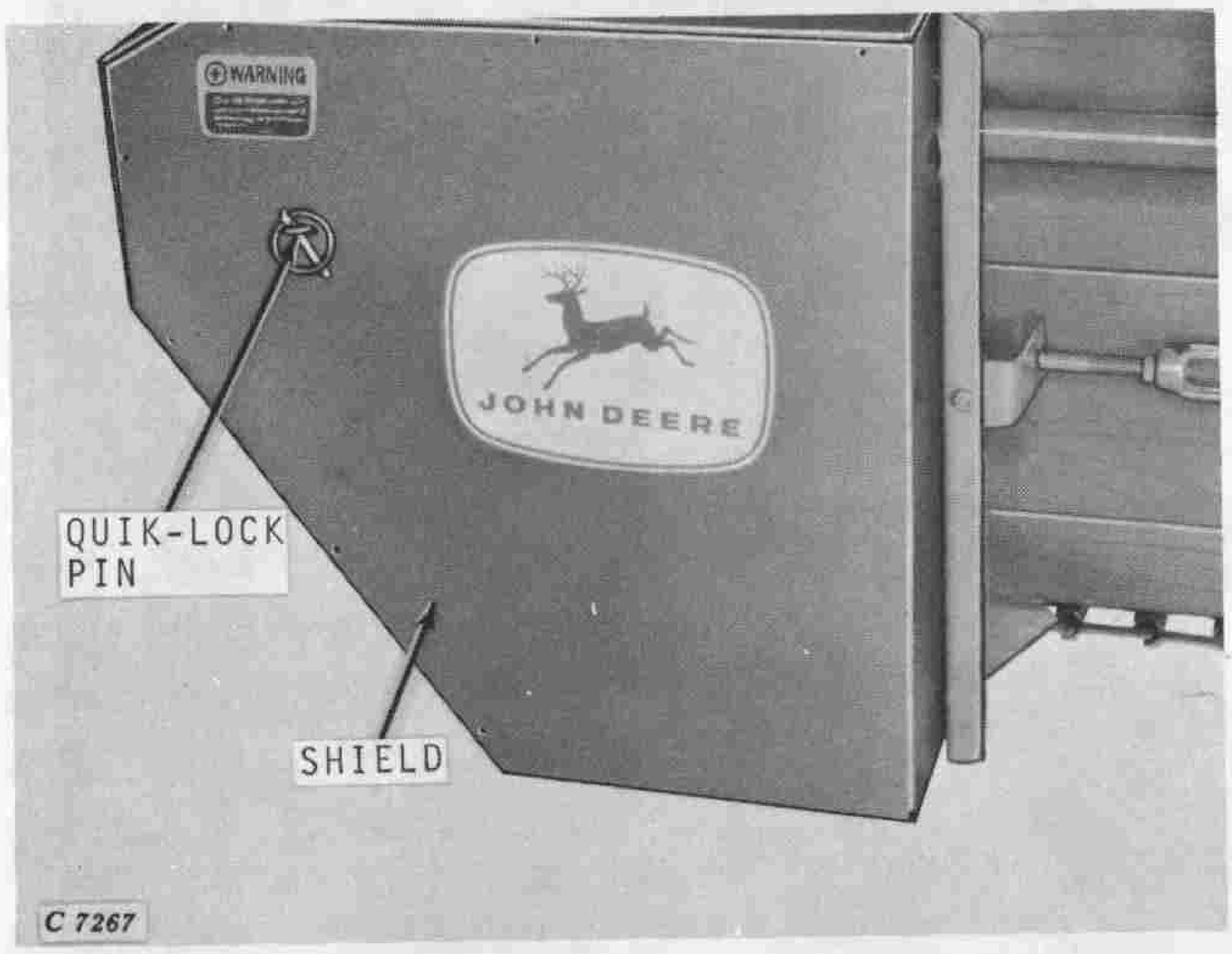
FEED CONTROL—Continued

Stand clear of the spreader, start the tractor engine and at slow idle speed, engage the tractor PTO.

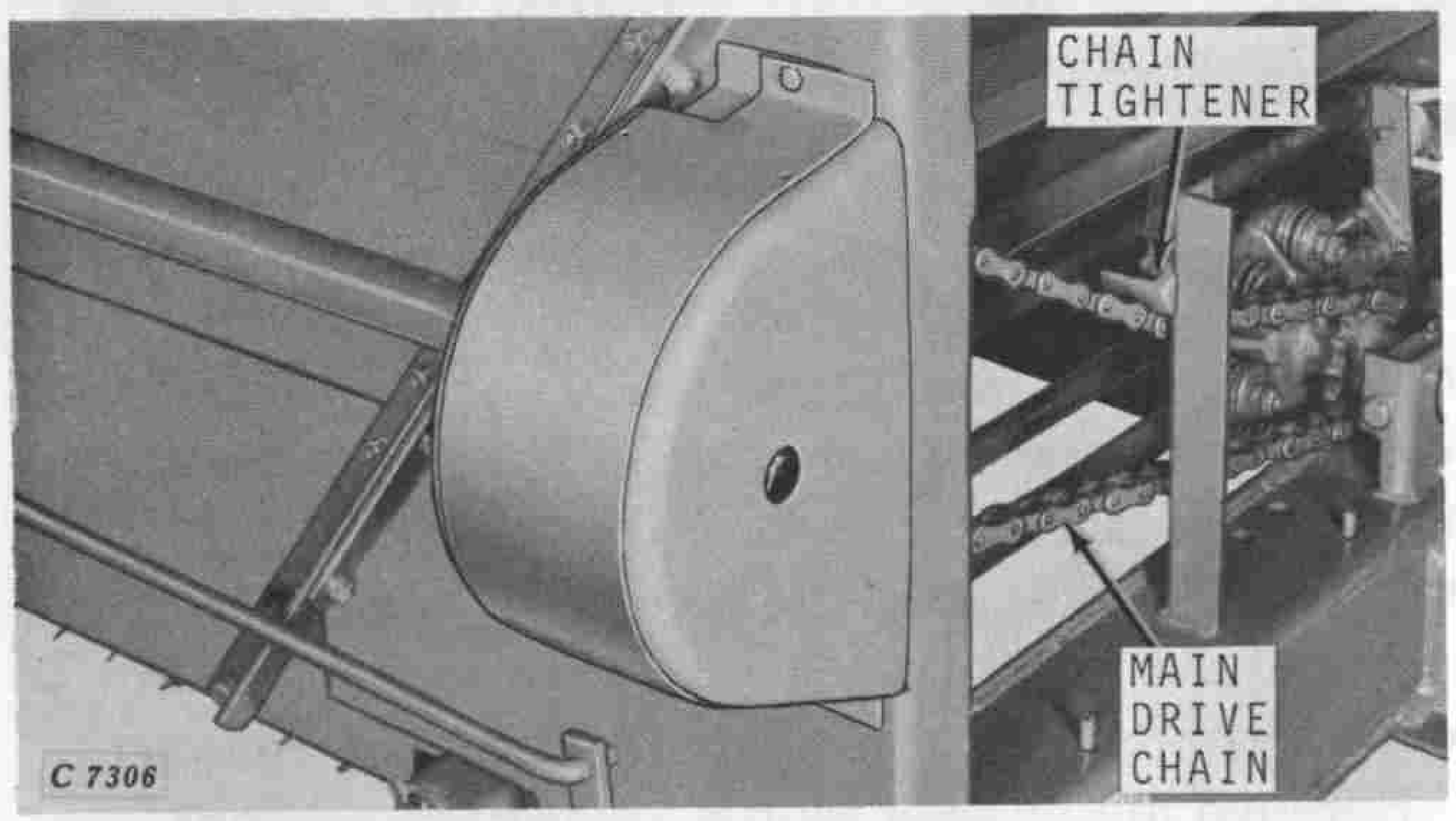
Operate the control rope through each of the feed settings and observe the ratchet feed mechanism to see that the feed pawl picks up one tooth in the second setting, two teeth in the third setting, and three teeth in the fourth setting. Pull the control rope one more time to see that the fast conveyor speed is maintained and that the beater is disengaged in the fifth setting.

If necessary, disengage tractor PTO and shut off tractor engine and recheck the adjustments outlined above.

NOTE: When running the spreader empty, the ratchet may occasionally pick up two notches when the feed control is set in the second setting.



Replace the drive shield.



Remove the front sheet. Adjust chain tightener so the chain will deflect slightly under moderate thumb pressure. Loss of efficiency will result if the chain has too much slack; excessive chain and sprocket wear will result if the chain is too tight.

Replace front sheet.

WHEELS

The spreader wheels are equipped with tapered roller bearings which require periodic lubrication and service.

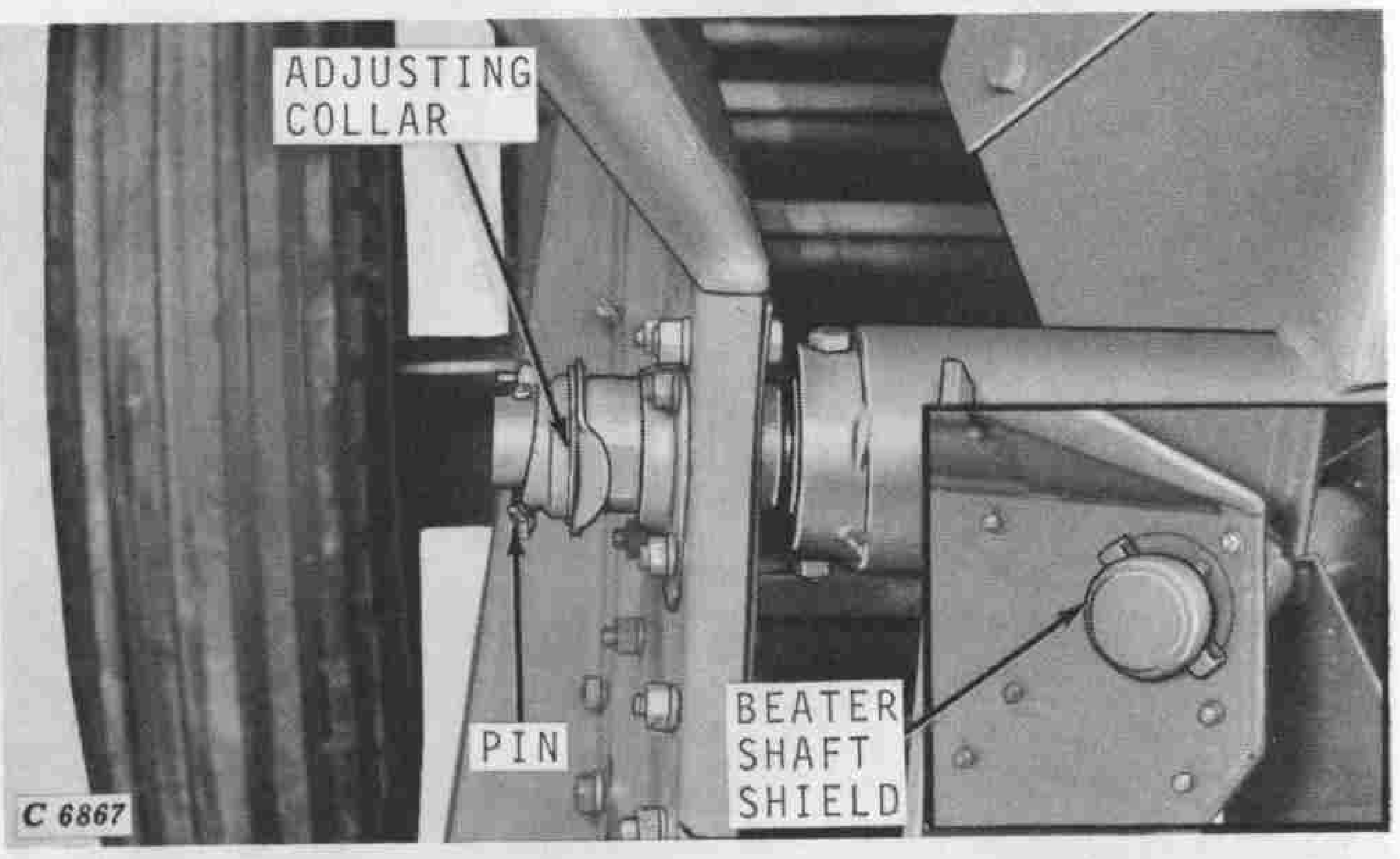
Inspect and repack the bearings with wheel bearing grease once each season.

Check wheels occasionally for bearing end play by raising wheels off the ground. If end play is evident, remove the hub cap and cotter pin. Tighten the castellated nut until there is a slight drag.

If the cotter pin cannot be replaced with the nut in this position, back off the nut until a slot is lined up with nearest hole in axle stub shaft. Replace the cotter pin and hub cap.

IMPORTANT: Periodically check the wheel bolts for tightness. Tighten bolts to 80 to 100 ft-lbs torque.

ADJUSTING COLLAR FOR BEATER SHAFT



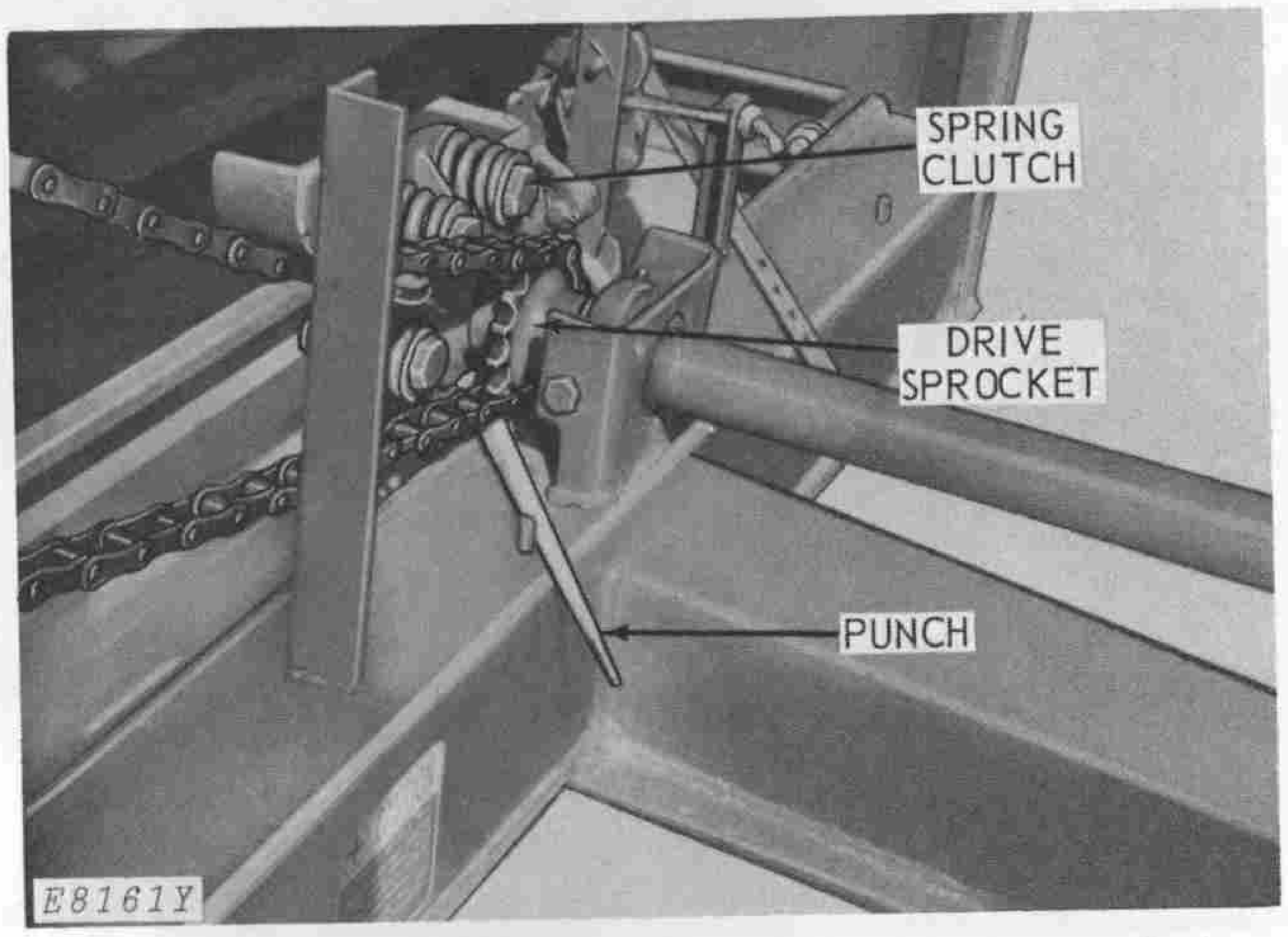
The adjusting collar is provided to remove end play from the beater shaft which may develop as the spreader is used. Check for end play from time to time and if necessary, remove the beater shaft shield, and the pin securing the adjusting collar. Reposition the adjusting collar to remove end play. Replace the pin, cotter pin, and beater shaft shield.

ADJUSTING SPRING CLUTCH

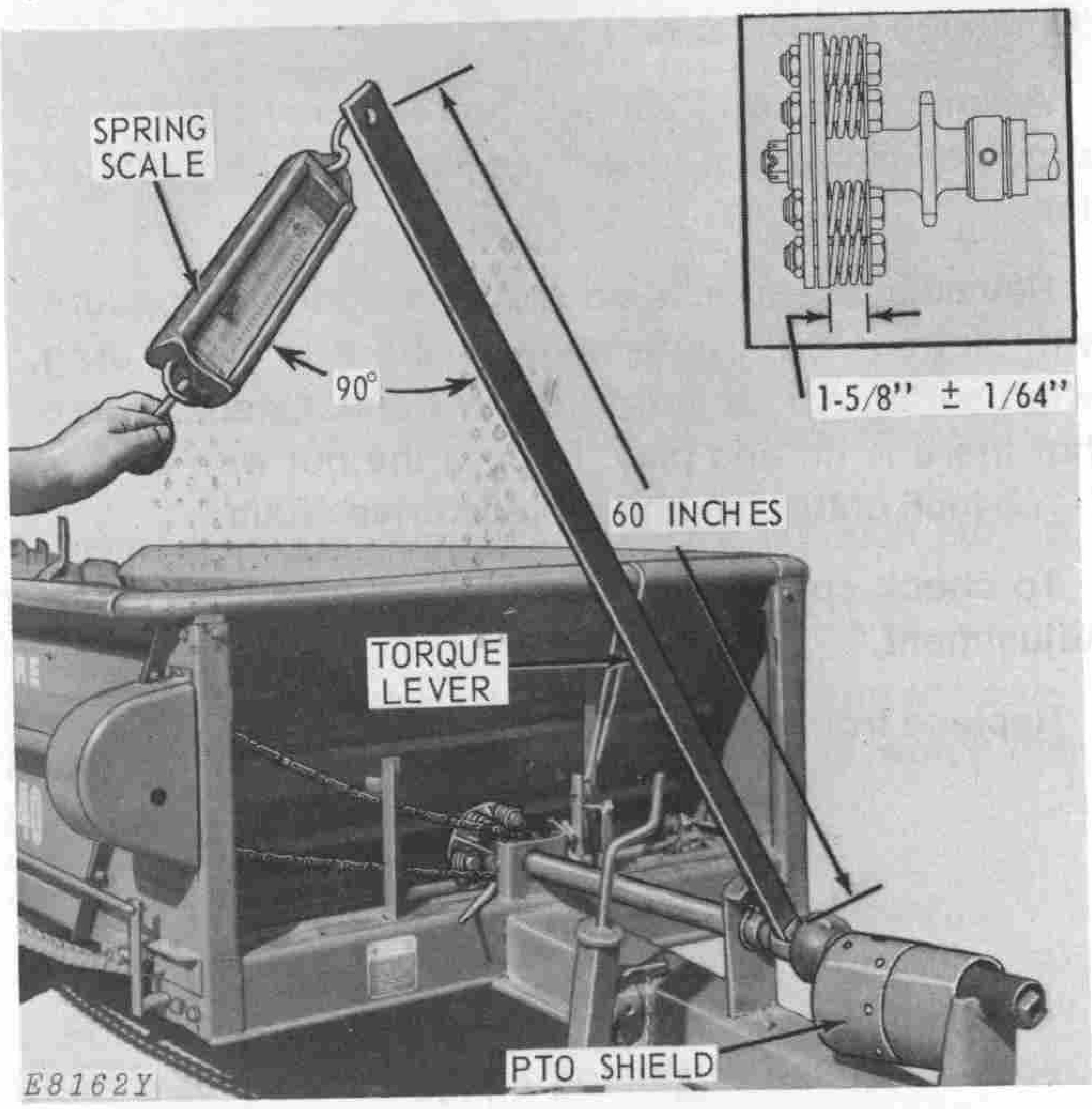
(34 Spreader)

The spring clutch protects the spreader drive parts from overloads. When properly adjusted, the clutch will slip at 4300 to 5200 inch-pounds of torque for 540 rpm PTO operation, and at 2300 to 2800 inch-pounds of torque for 1000 rpm PTO operation. Overtightening the spring clutch will completely destroy the protection it was designed to furnish to the drive train.

Checking Adjustment



Remove the front sheet and wedge a punch between the drive sprocket and main frame. The punch should be long enough to protrude beyond the sprocket and engage one of the spring clutch bolts.



Remove the two cap screws from front PTO shield and slide it toward front of spreader.

Insert a torque lever (63 x 1-1/2 x 1/2-inch bar) in the universal knuckle.

NOTE: The length of the torque lever from the center of the universal knuckle to the hole in which the spring scale is hooked must be 60 inches.

Hook the scale in the hole in the torque lever.

For 540 rpm operation, the clutch should "jump" when a force of 70 to 86 pounds is exerted after the clutch has been "jumped" at least six times. For 1000 rpm operation, the clutch should "jump" when a force of 38 to 47 pounds is exerted after the clutch has been "jumped" at least six times.

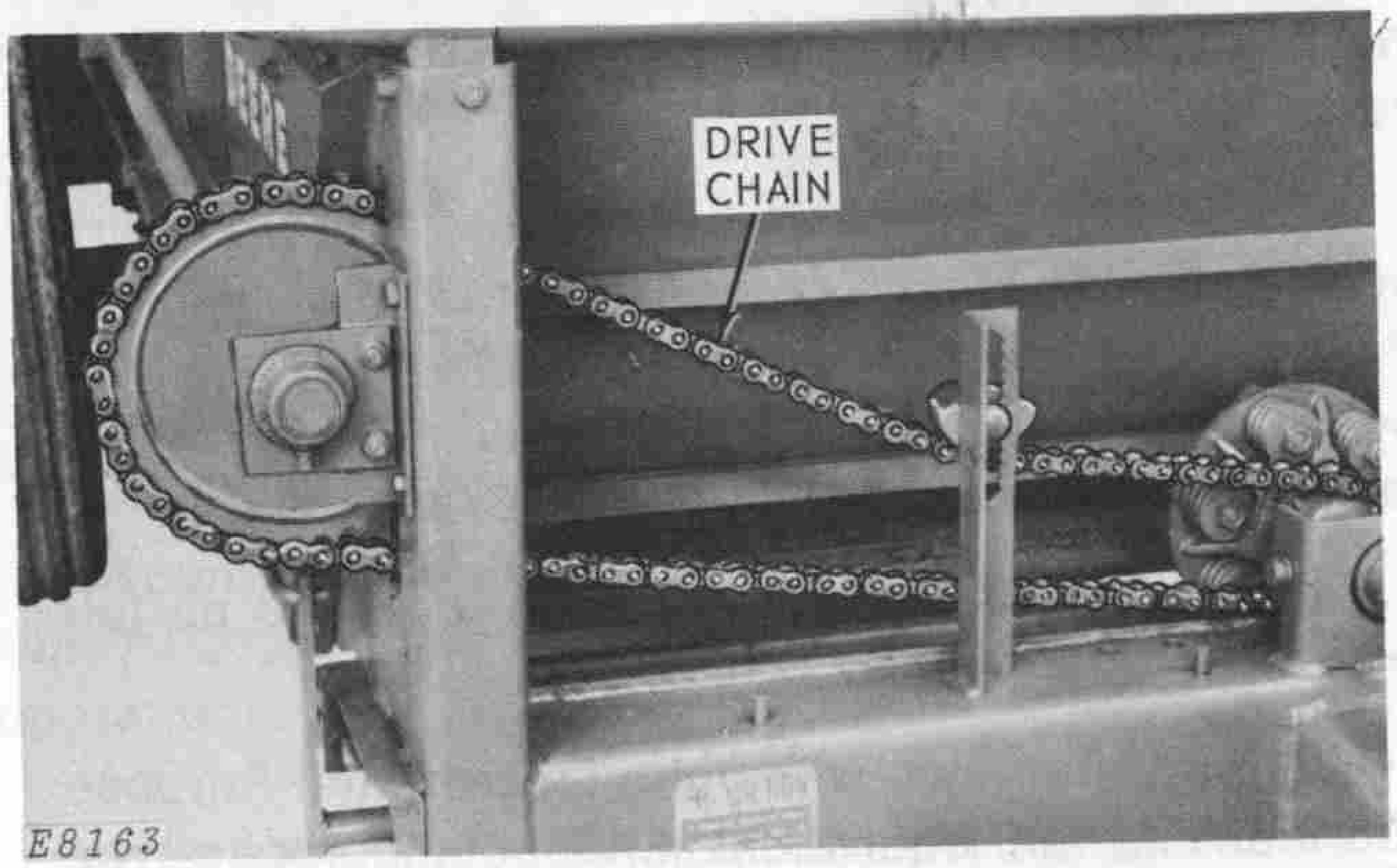
If improperly adjusted, tighten or loosen the clutch bolts evenly until the clutch is adjusted correctly. With new clutch parts, the height of the springs should be 1-5/8 inches ± 1/64. (See inset.)

Remove the bar and replace the PTO shield and the front sheet.

NOTE: If spring clutch setting cannot be maintained as specified above, remove the spring clutch and replace the jaws as shown in "Repair."

Repair

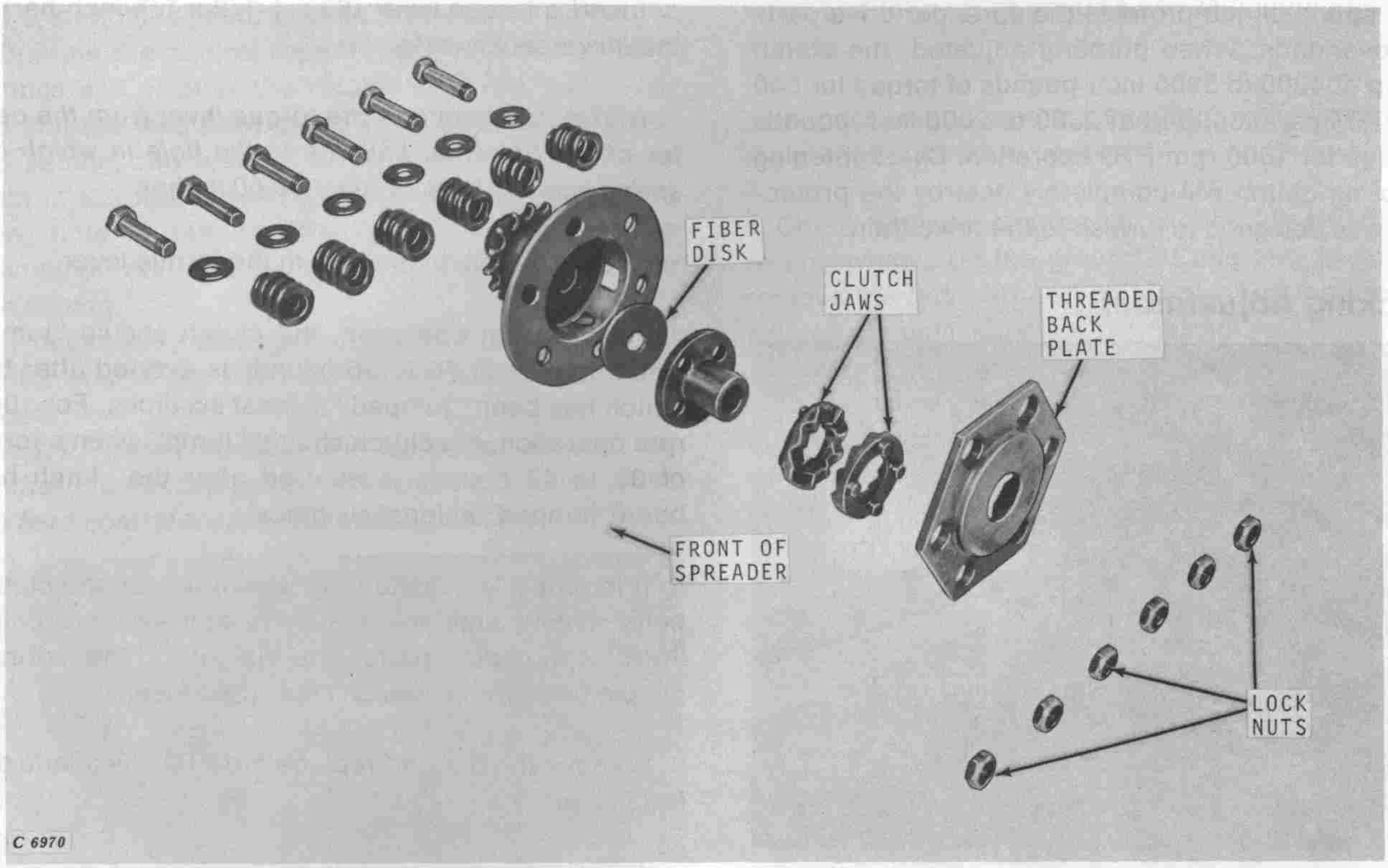
Remove front sheet.



Disconnect the drive chain (111-link chain for 540 rpm operation, 46-link chain for 1000 rpm operation).

ADJUSTING SPRING CLUTCH—Continued

(34 Spreader)



Spring Clutch (540 rpm Illustrated)

Remove spring clutch from powershaft by removing cotter pin and slotted nut.

To disassemble spring clutch, remove six lock nuts (three lock nuts for 1000 rpm PTO operation). Remove six bolts and lay out parts as shown in the illustration above.

If jaws are "galled" and the tops of the teeth are worn, they should be replaced. The height of the jaws should be more than 1/8 inch measured at the outside diameter of the jaws. The fiber disk should be replaced if its thickness is less than 3/32 inch.

To reassemble the spring clutch, proceed as follows:

Lubricate the jaws with John Deere Multi-Purpose Lubricant or an equivalent SAE multipurpose-type grease.

Lubricate the fiber disk with John Deere Multi-Purpose Lubricant or an equivalent SAE multipurpose-type grease.

Assemble the parts as shown in the illustration except for the six lock nuts (three lock nuts for 1000 rpm PTO operation).

Set the height of the springs to 1-5/8 ± 1/64 inches by turning bolts in the threaded back plate. (See "Checking Adjustment.")

Assemble the six lock nuts and tighten to 125 ft-lbs torque to insure that they do not loosen during operation.

Reinstall the clutch on the spreader and secure with slotted nut. Tighten nut so there is slight drag when spring clutch is rotated by hand. Check to see that there is no end play. Secure the nut with 3/16 x 1-1/2-inch cotter pin and replace drive chain.

To check spring clutch setting, refer to "Checking Adjustment."

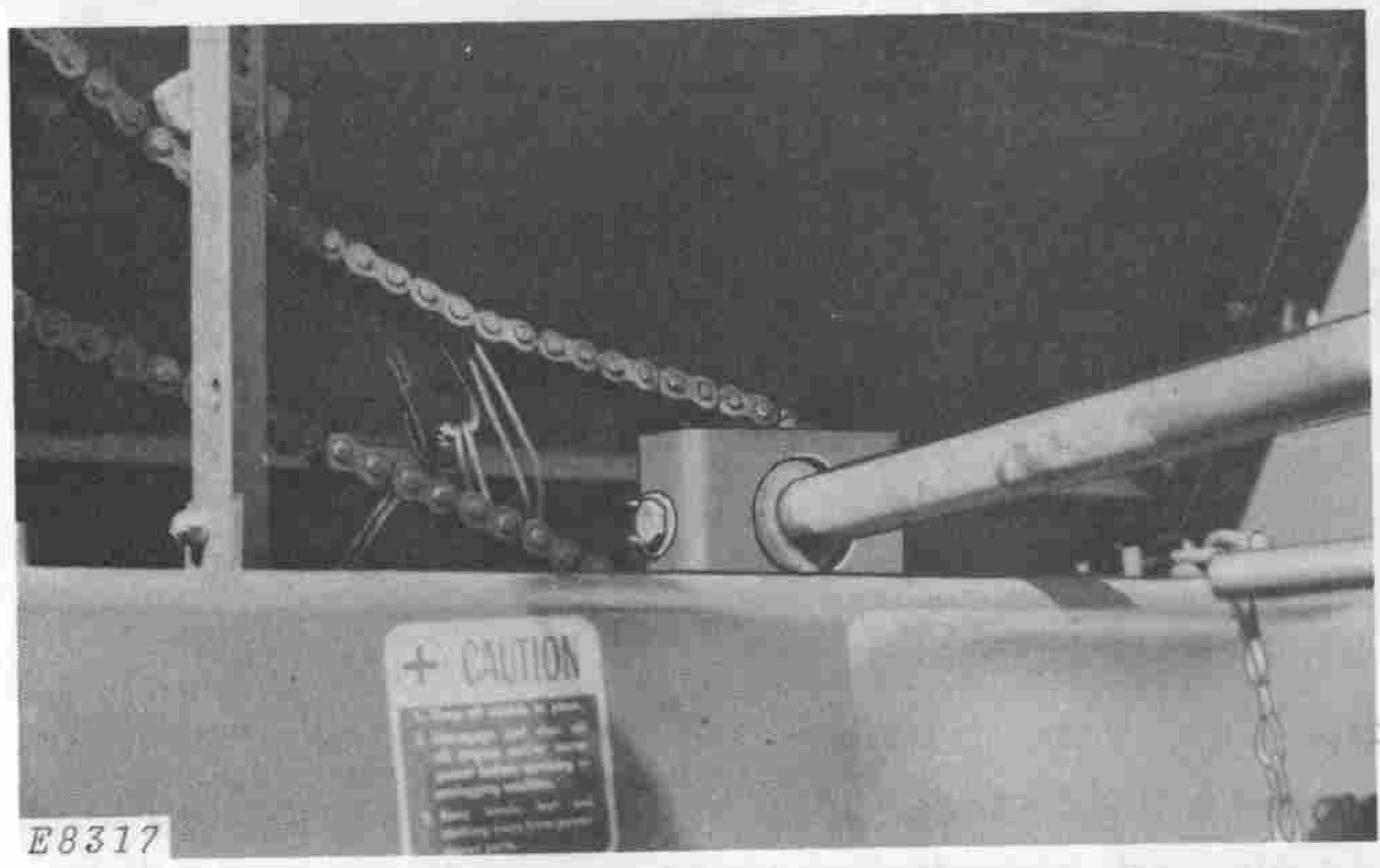
Replace front sheet.

ADJUSTING SPRING CLUTCH

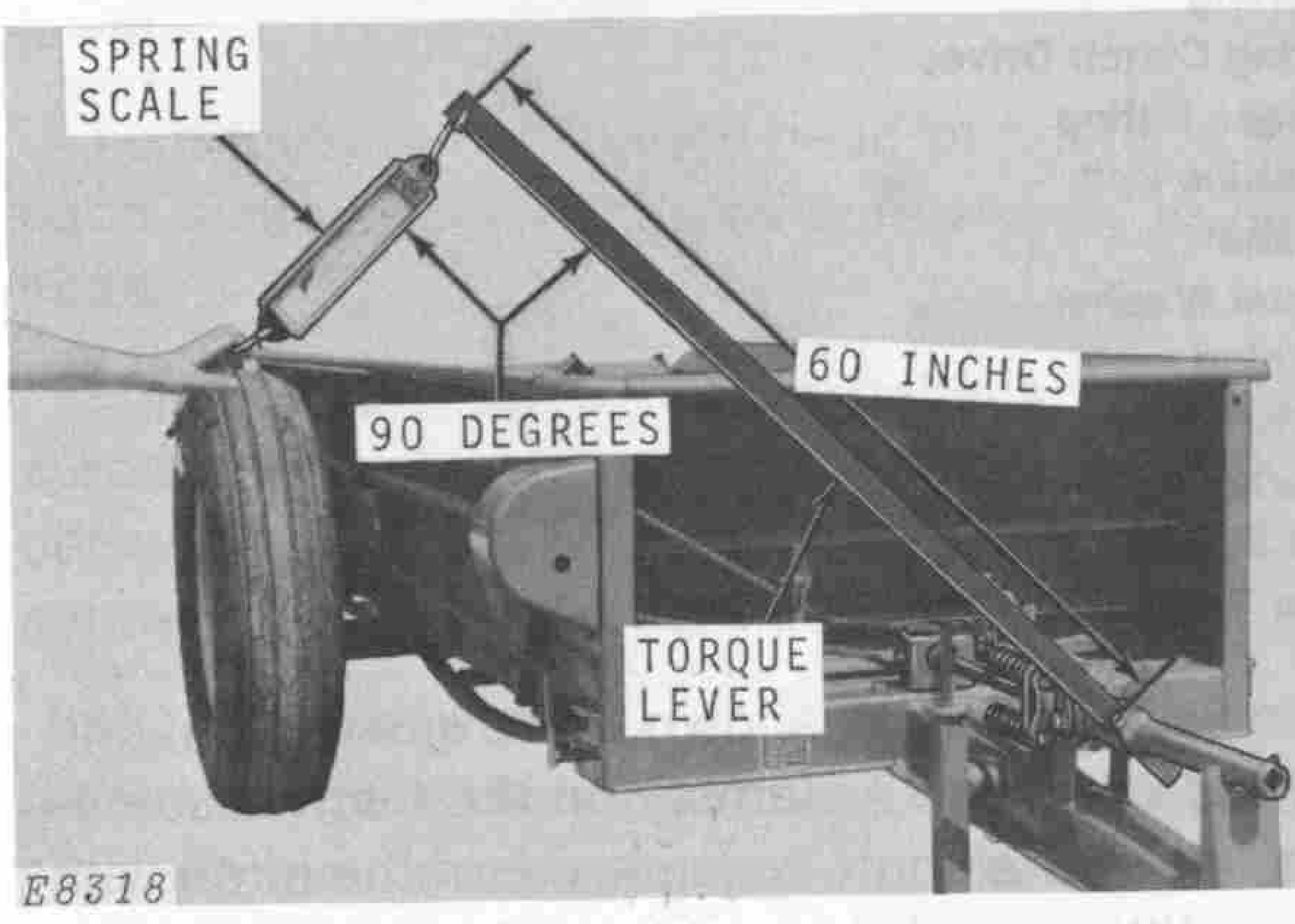
(40 Spreader)

The spring clutch protects the spreader drive parts from overloads. When properly adjusted, the clutch will slip at 4300 to 5200 inch-pounds of torque for 540 rpm PTO operation, and at 2300 to 2800 inch-pounds of torque for 1000 rpm PTO operation. Over tightening will destroy the protection.

Checking Adjustment



Remove the front sheet and secure the drive chain with a piece of wire as shown in the illustration above.



Insert a torque lever (63 x 1-1/2 x 1/2-inch bar) in the universal knuckle.

NOTE: The length of the torque lever from the center of the universal knuckle to the hole in which the spring scale is hooked must be 60 inches.

Hook the scale in the hole in the torque lever.

For 540 rpm operation, the clutch should "jump" when a force of 70 to 86 pounds is exerted, 90 degrees to the lever, after the clutch has been "jumped" at least six times.

For 1000 rpm operation, the clutch should "jump" when a force of 38 to 47 pounds is exerted, 90 degrees to the lever, after the clutch has been "jumped" at least six times.

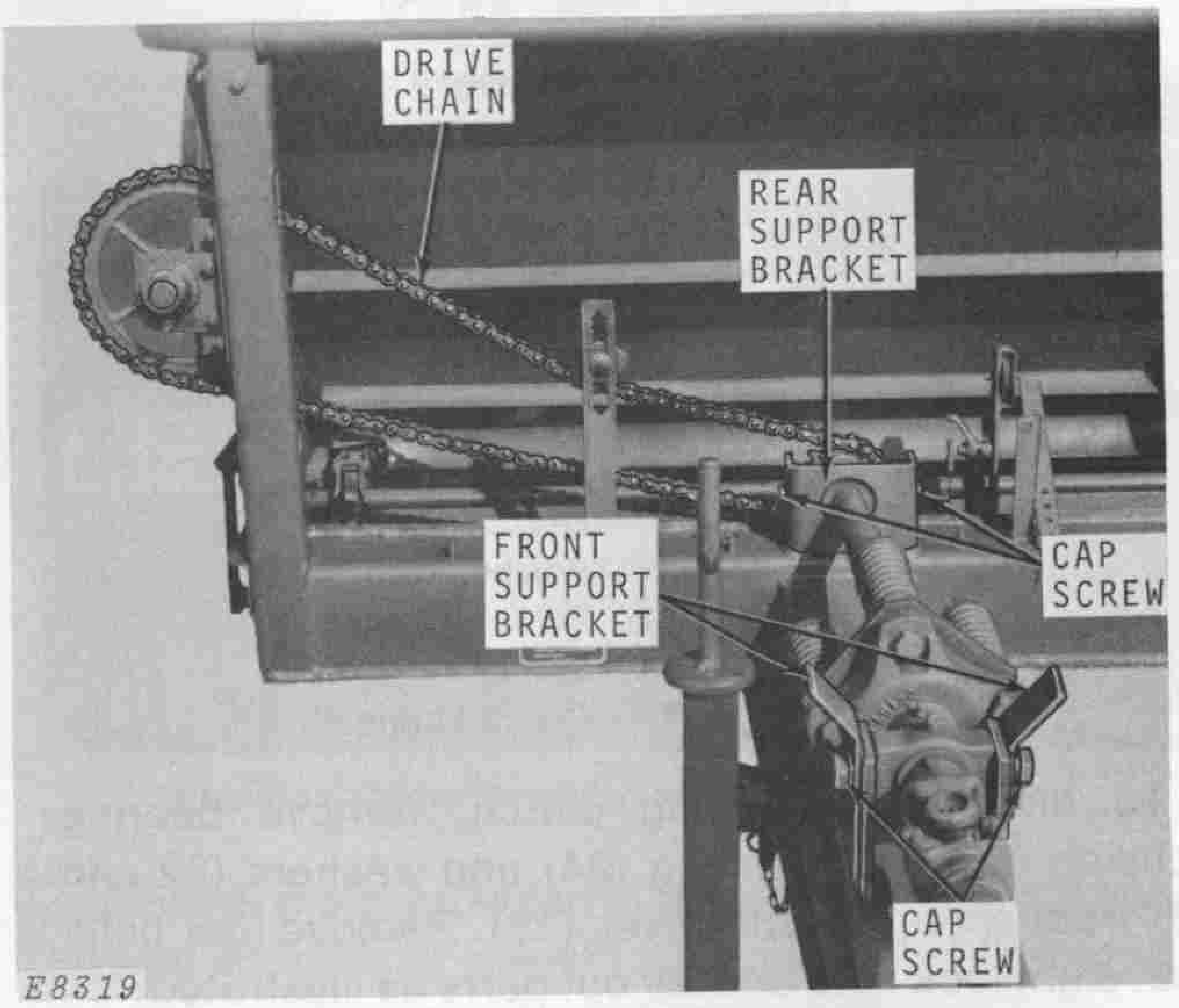
If improperly adjusted, tighten or loosen the clutch bolts evenly until the clutch is adjusted correctly. Tightening the bolts increases the force required to slip the clutch.

Remove the torque lever and wire from the chain. Replace the front sheet and PTO shield. Reinstall the tractor half of the PTO shaft with shield.

NOTE: If spring clutch setting cannot be maintained as specified above, remove the spring clutch and replace the jaws, as shown in "Repair."

Repair

Remove front sheet.



Disconnect the drive chain (113-link chain for 540 rpm PTO operation, 46-link chain for 1000 rpm PTO operation).

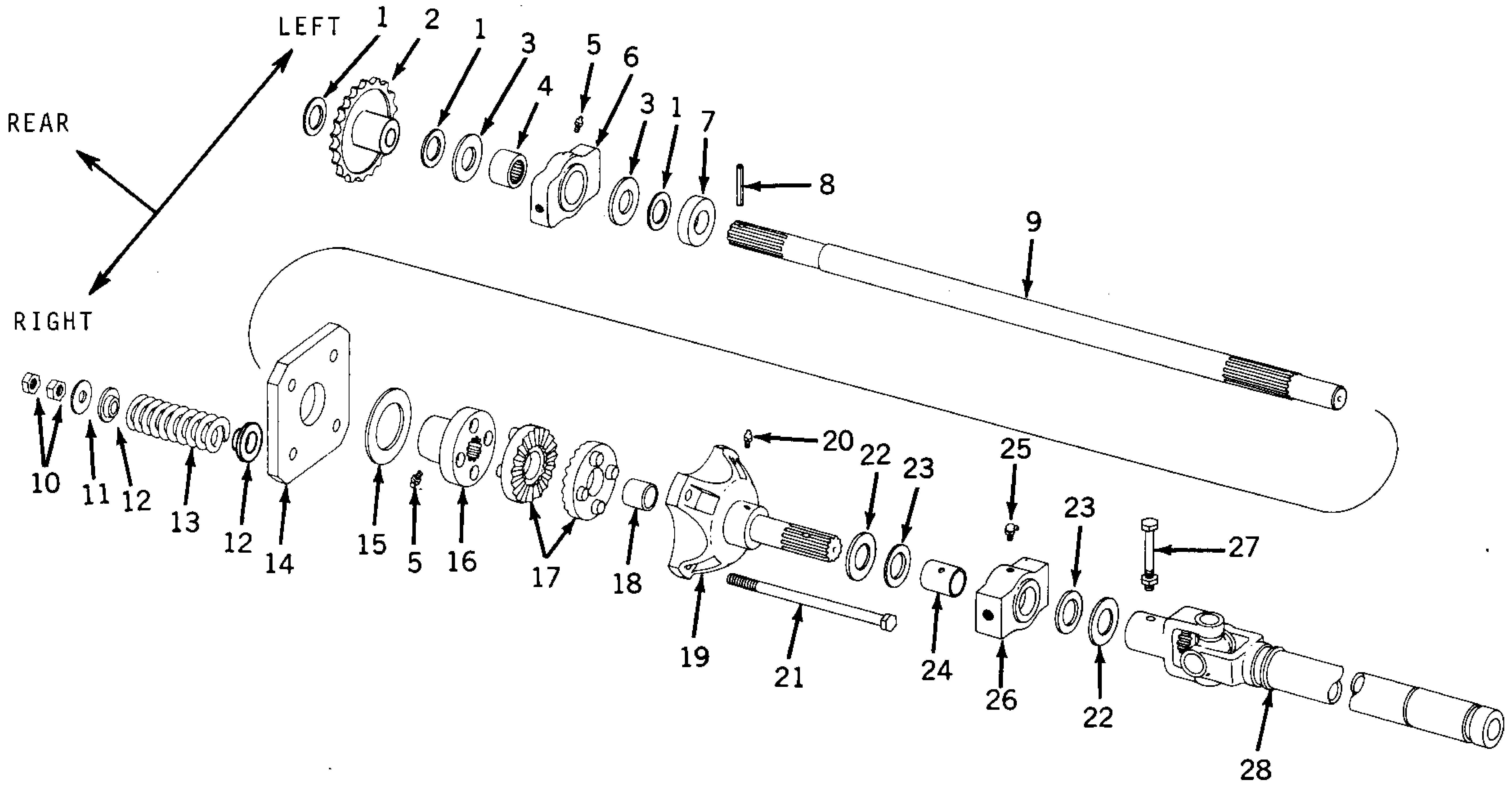
Remove the implement half of the PTO shaft.

Remove four cap screws securing the front and rear bearing housing to the support brackets.

Remove complete spring clutch assembly from the spreader hitch.

ADJUSTING SPRING CLUTCH—Continued
(40 Spreader)

Repair—Continued



E8320

1—Washer
2—Sprocket
3—Thrust Washer
4—Needle Bearing
5—Grease Fitting
6—Bearing Housing
7—Collar
8—Groove Pin
9—PTO Shaft
10—Nut
11—Washer
12—Retainer Spring
13—Spring
14—Clutch Spring Plate
15—Fiber Washer
16—PTO Shaft Driver
17—Clutch Jaw
18—Bushing
19—Spring Clutch Driver
20—Grease Fitting
21—Machine Bolt
22—Washer
23—Thrust Washer
24—Bushing
25—Grease Fitting
26—Bearing Housing
27—Cap Screw
28—Rear Telescoping Powershaft

To disassemble spring clutch, remove bearing housing (26) with bushing (24) and washers (22 and 23) from spring clutch driver (19). Remove four bolts with eight lock nuts and lay out parts as illustrated.

If jaws are cracked or "galled" and the tops of the teeth are worn, they should be replaced. The height of the jaws should be more than 5/32 inch measured at the outside diameter of the jaws.

To reassemble the spring clutch, proceed as follows:

Lubricate the jaws with John Deere Multi-Purpose Lubricant or an equivalent SAE multipurpose-type grease.

Lubricate the fiber disk with John Deere Multi-Purpose Lubricant or an equivalent SAE multipurpose-type grease.

Assemble the parts as shown in the illustration, and reinstall the complete assembly on the hitch. Assemble the shaft so the shaft is centered on the hitch with the grease fitting on the top side of the bearing housing.

NOTE: The special cap screws used to secure the rear bearing housing to the rear support brackets must be replaced to retain their locking quality.

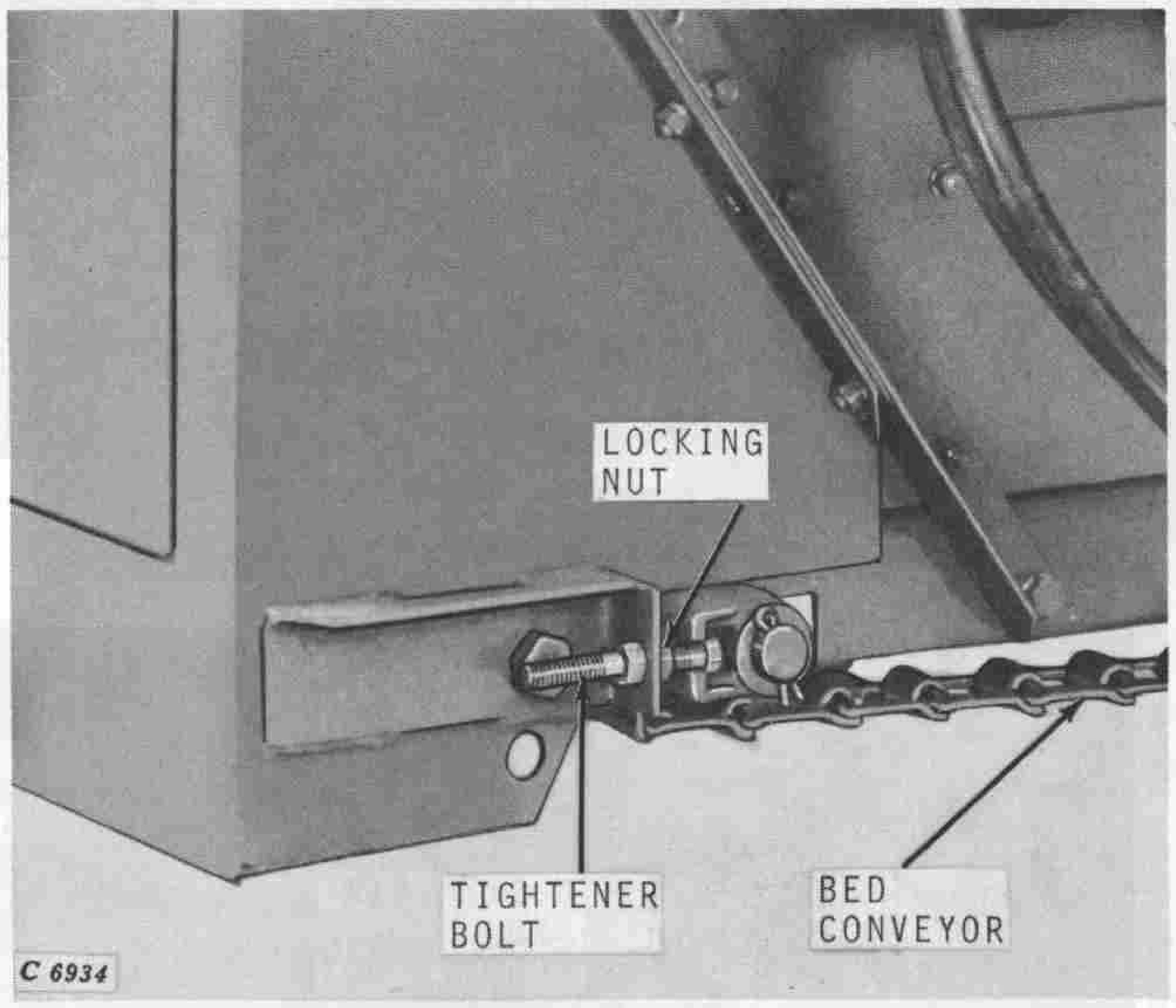
Replace cap screws, previously removed, to secure front bearing housing.

Reinstall the implement half of the PTO shaft and either the 113-link (540 rpm PTO operation) or 46-link (1000 rpm PTO operation) chain.

To check spring clutch setting, refer to "Checking Adjustment."

BED CONVEYOR CHAIN

Adjustment



When properly adjusted, the bed conveyor chain should hang approximately 4 inches below the bottom of the bed sill at a point midway between the axle and the front of the spreader.

To adjust the bed conveyor chain, proceed as follows:

Turn locking nut toward head of tightener bolts at each side of spreader. Use screwdriver to hold bolt head.

Tighten nuts on tightener bolts at each side of spreader evenly until conveyor chain hangs 4 inches below bed sill midway between axle and front of spreader. Lock adjustment with locking nuts.

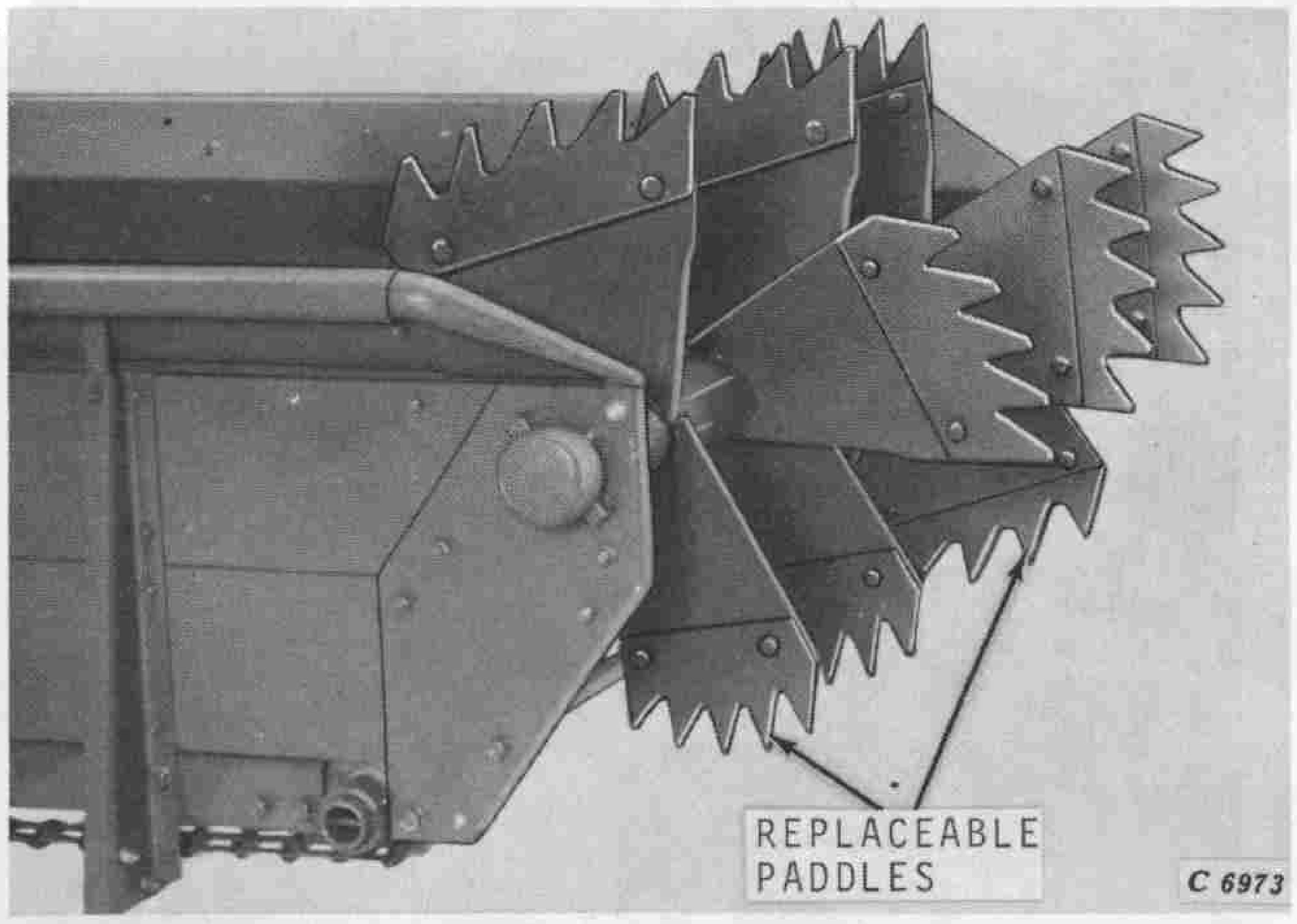
NOTE: Enough slack may develop in a new chain that one or two links may have to be removed at each side. Always remove the same number of links at the same point on each side of the spreader.

Repair

If a conveyor chain link breaks, use six links to repair the chain. Replace the broken link, plus one link in front and one link in back of the broken link.

Hairline breaks, which are difficult to see, may occur in the chain link opposite the broken conveyor chain link. Therefore, repeat procedure on the opposite conveyor chain directly across from the broken link.

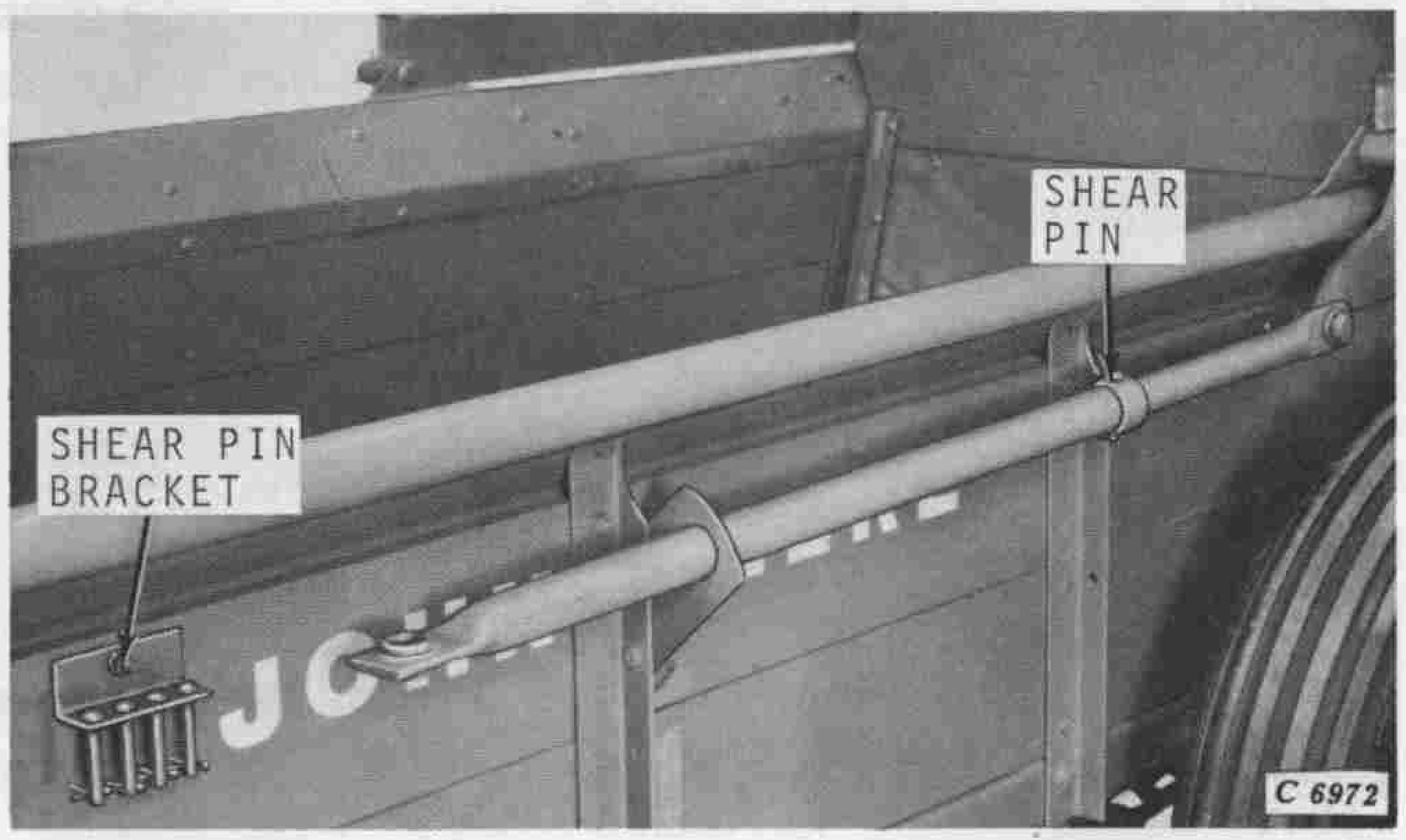
PADDLE BEATER



If a beater paddle is damaged, it is only necessary to replace the damaged paddle. It is *not* necessary to balance the beater by adding sets of paddles. Tighten bolts to 85 ft-lbs torque.

SHEAR PINS

(Power-Seal Endgate)



(Remote Cylinder Removed for Illustration Purposes)

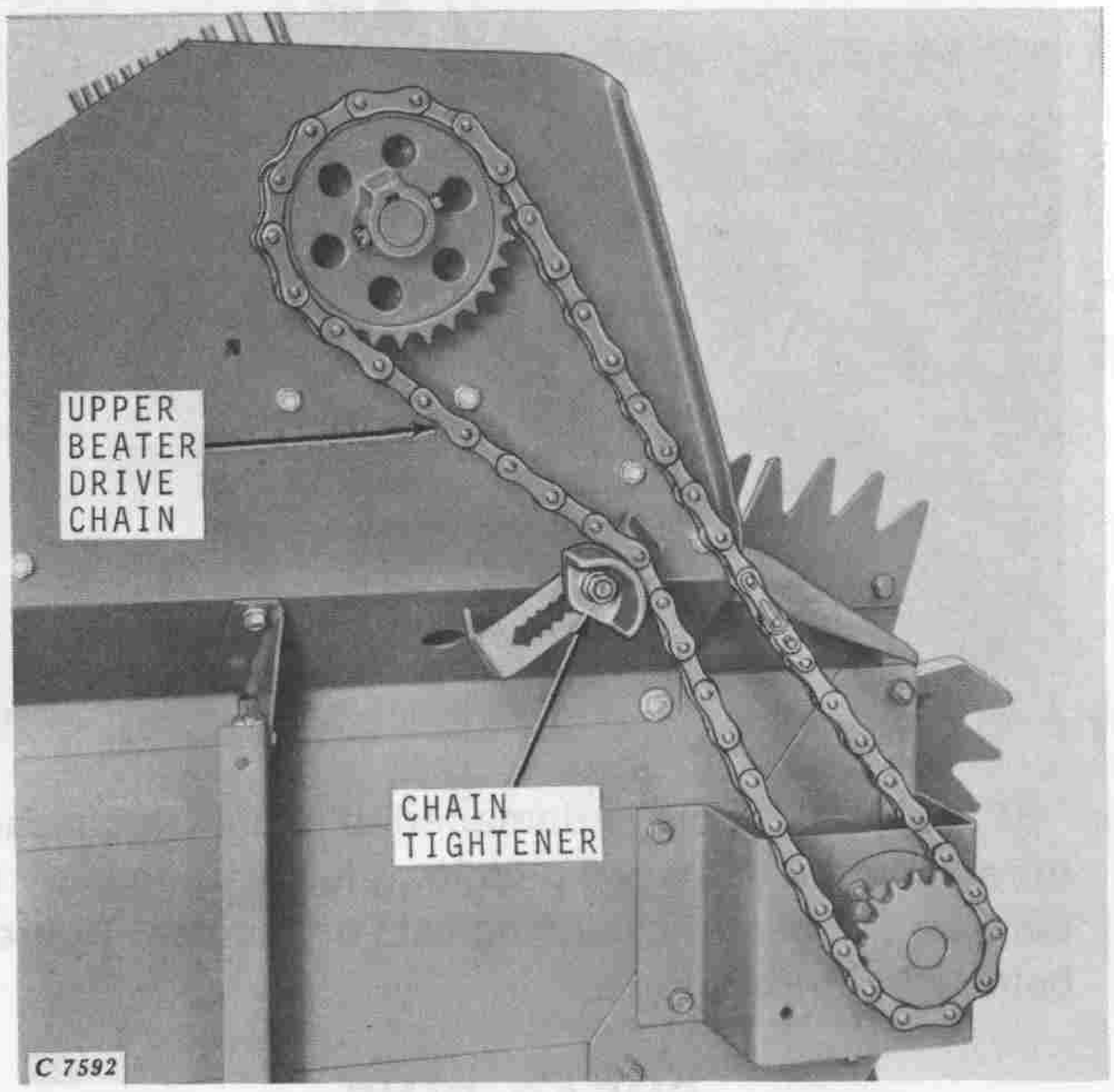
A shear pin is provided in the push rod for the power-seal endgate to prevent damage to the spreader if the endgate becomes frozen to the bed.

If the pin should shear, free the endgate before replacing the shear pin.

Additional shear pins (X1301C) with cotter pins are stored in a bracket near the left front of the spreader. **IMPORTANT: Do not substitute other pins or bolts of the same size.**

UPPER BEATER DRIVE CHAIN

(Attachment)

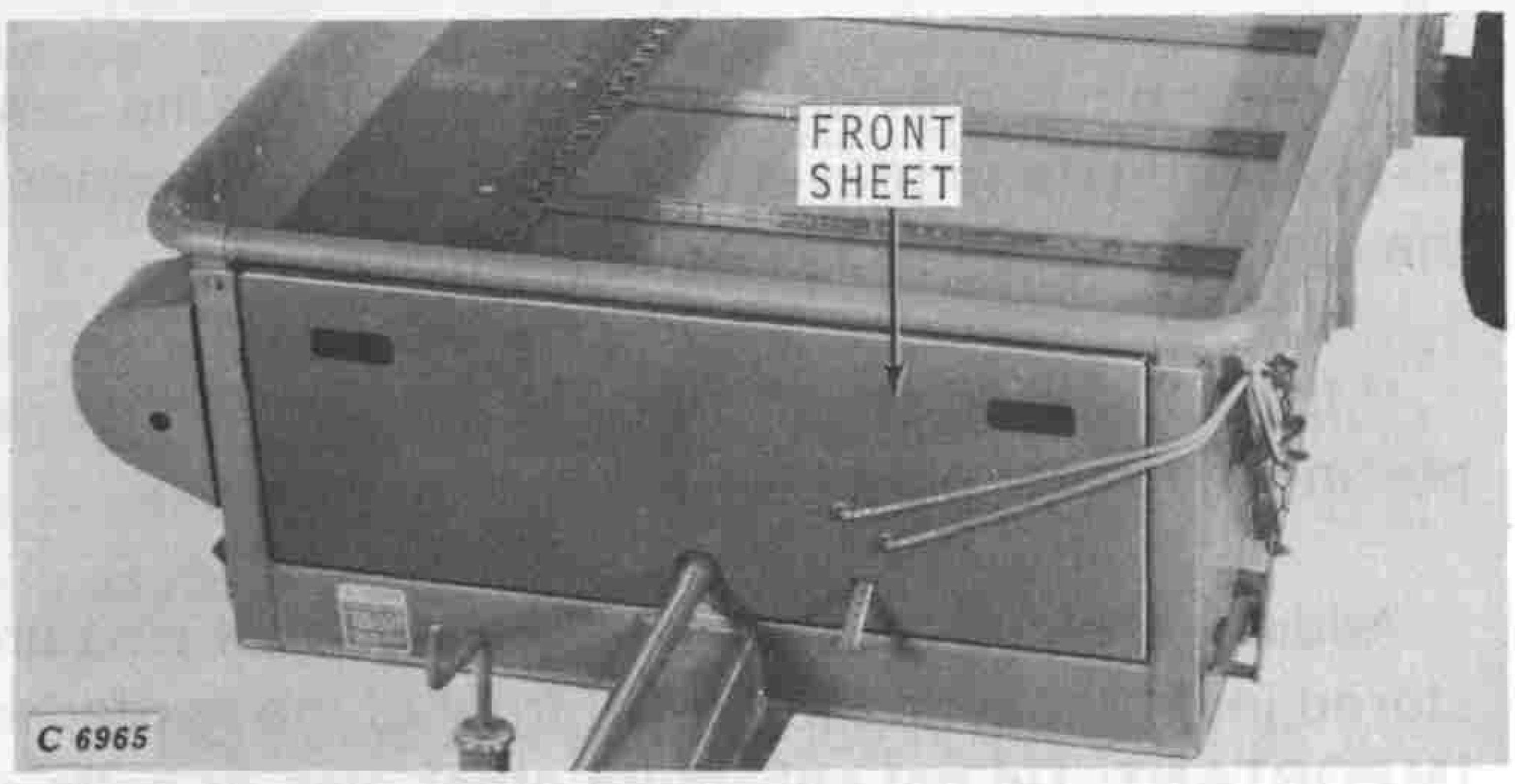


Remove chain shield. Adjust chain tightener so the chain will deflect slightly under moderate thumb pressure. Loss of efficiency will result if the chain has too much slack; excessive chain and sprocket wear will result if the chain is too tight.

Replace chain shield.

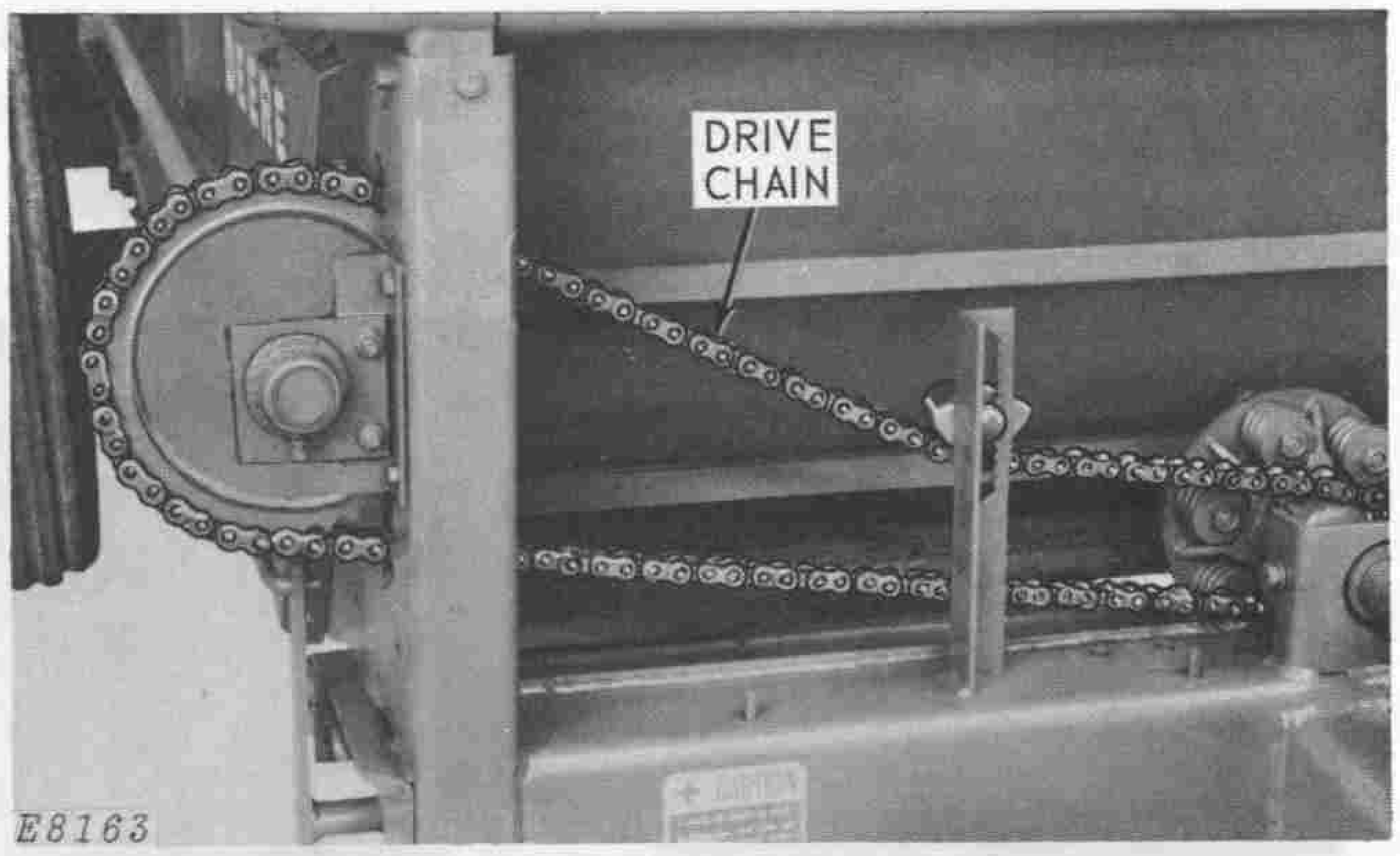
CONVERTING FROM 540 TO 1000 RPM PTO OPERATION

⚠ **CAUTION: Never hook up a spreader equipped for 540 rpm operation to a 1000 rpm tractor PTO.**

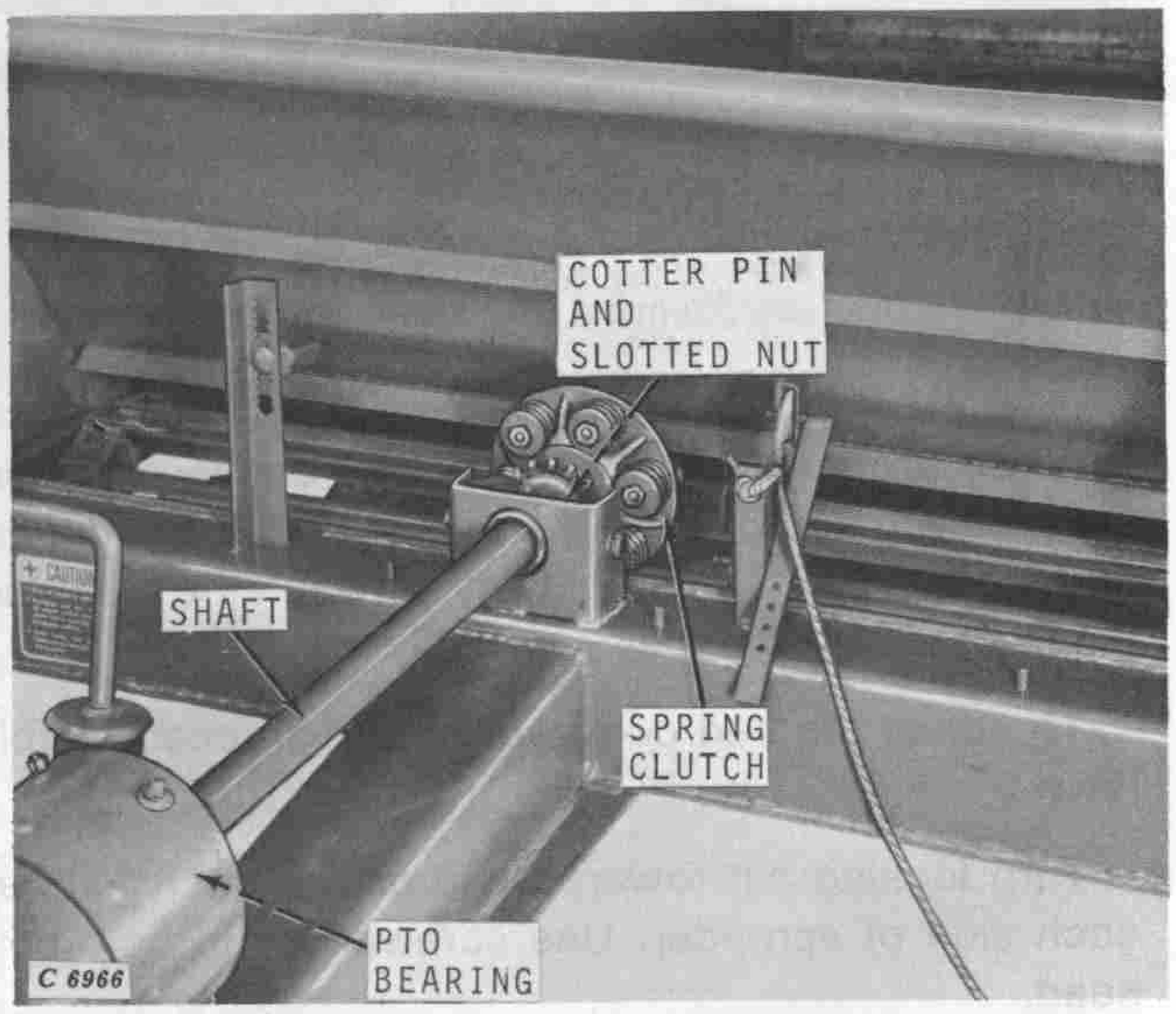


Remove front sheet on 34 Spreader.

Remove front sheet and PTO shield on 40 Spreader.



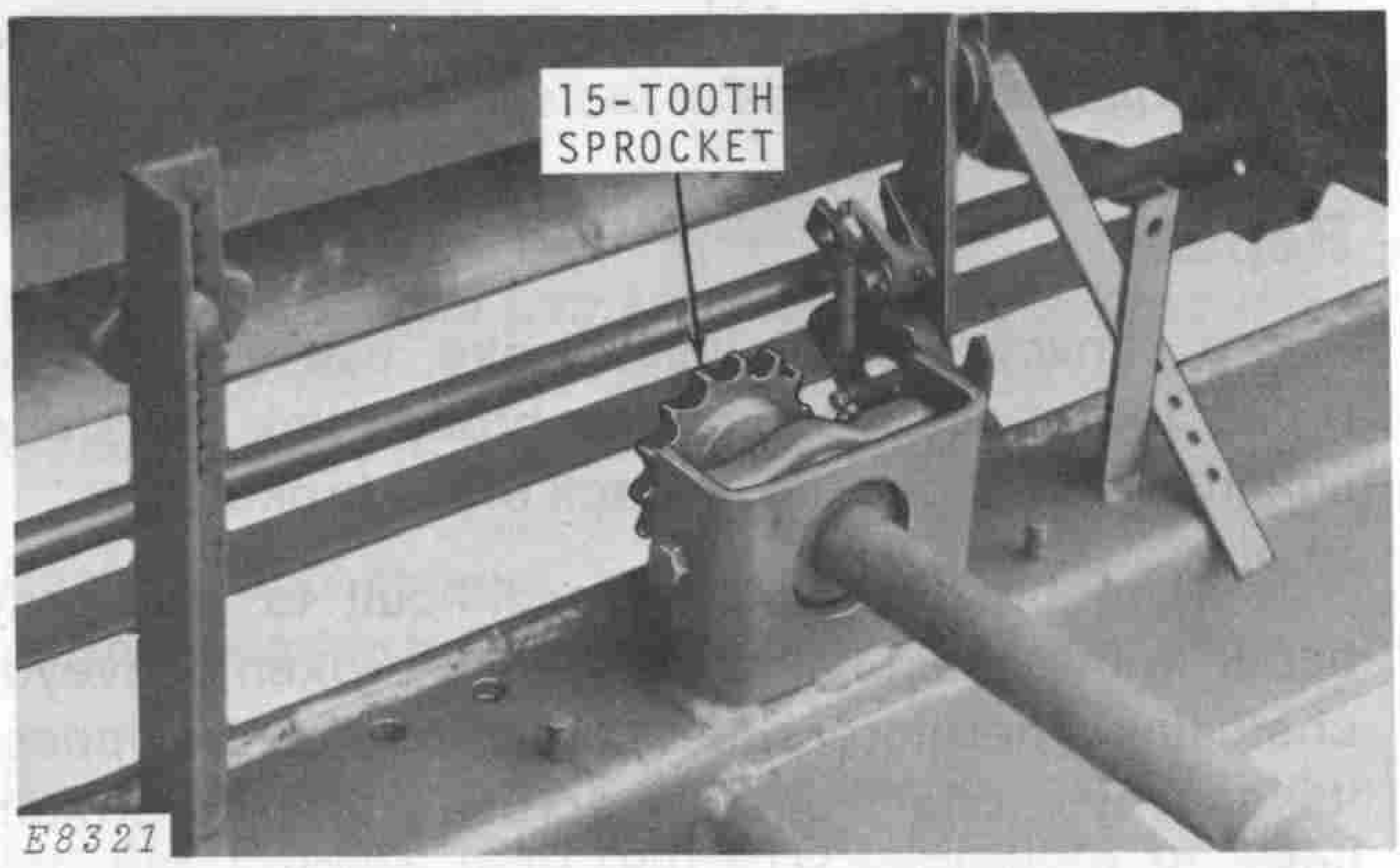
Remove drive chain.



On 34 Spreader:

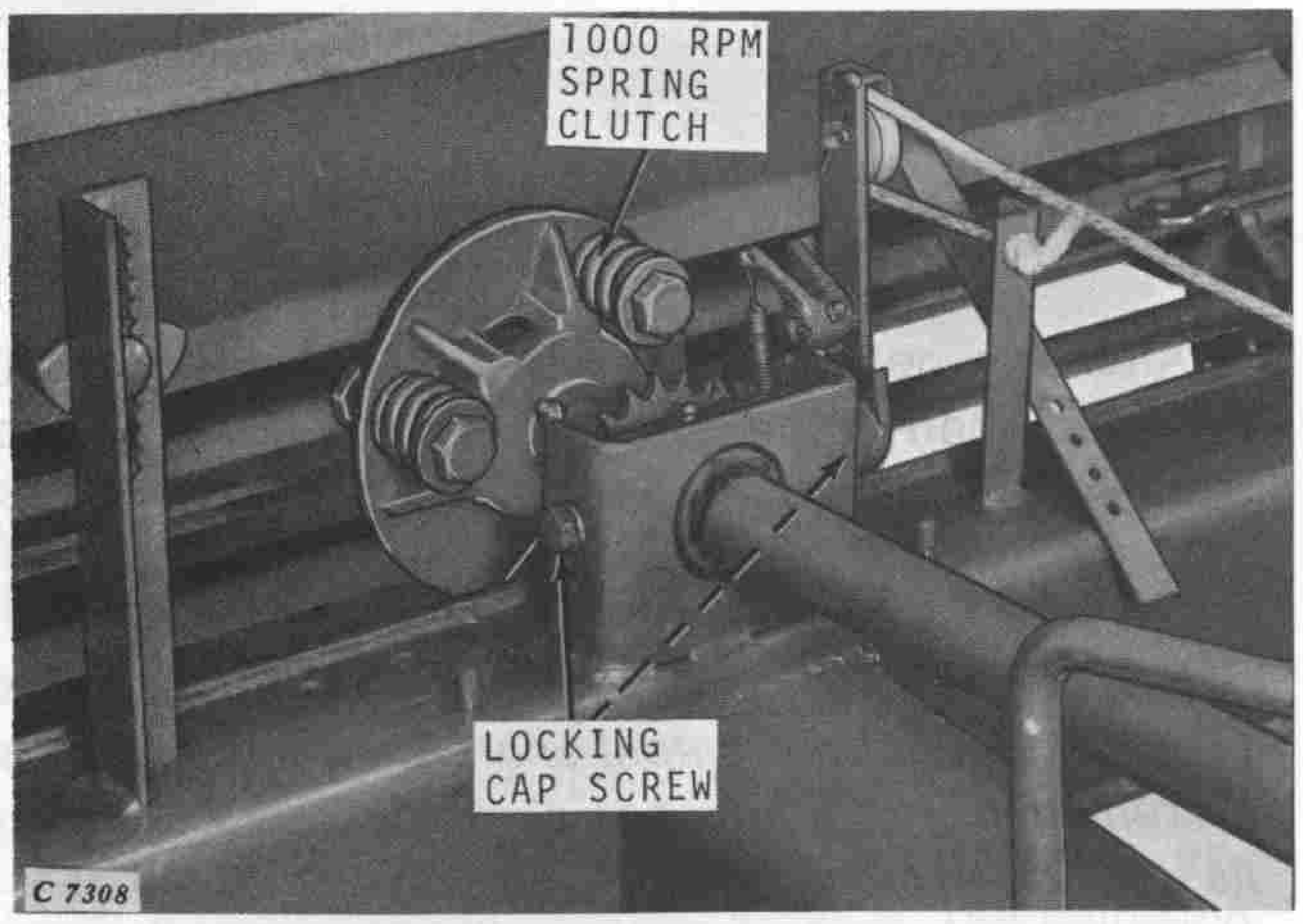
Remove cotter pin from PTO bearing.

Remove cotter pin and slotted nut. Push shaft forward and remove spring clutch.



On 40 Spreader:

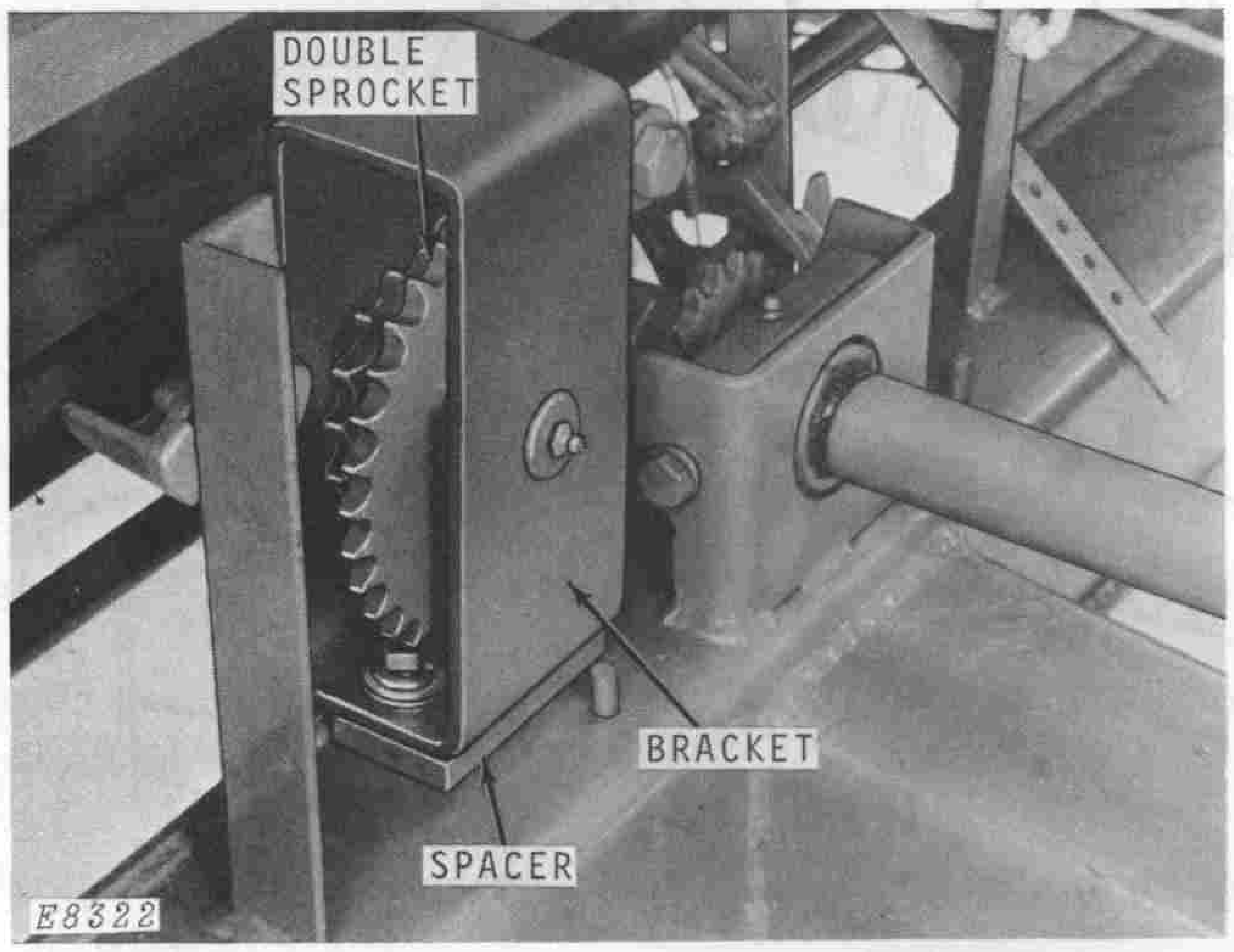
Remove groove pin and washer from 15-tooth sprocket on PTO drive shaft and remove sprocket.



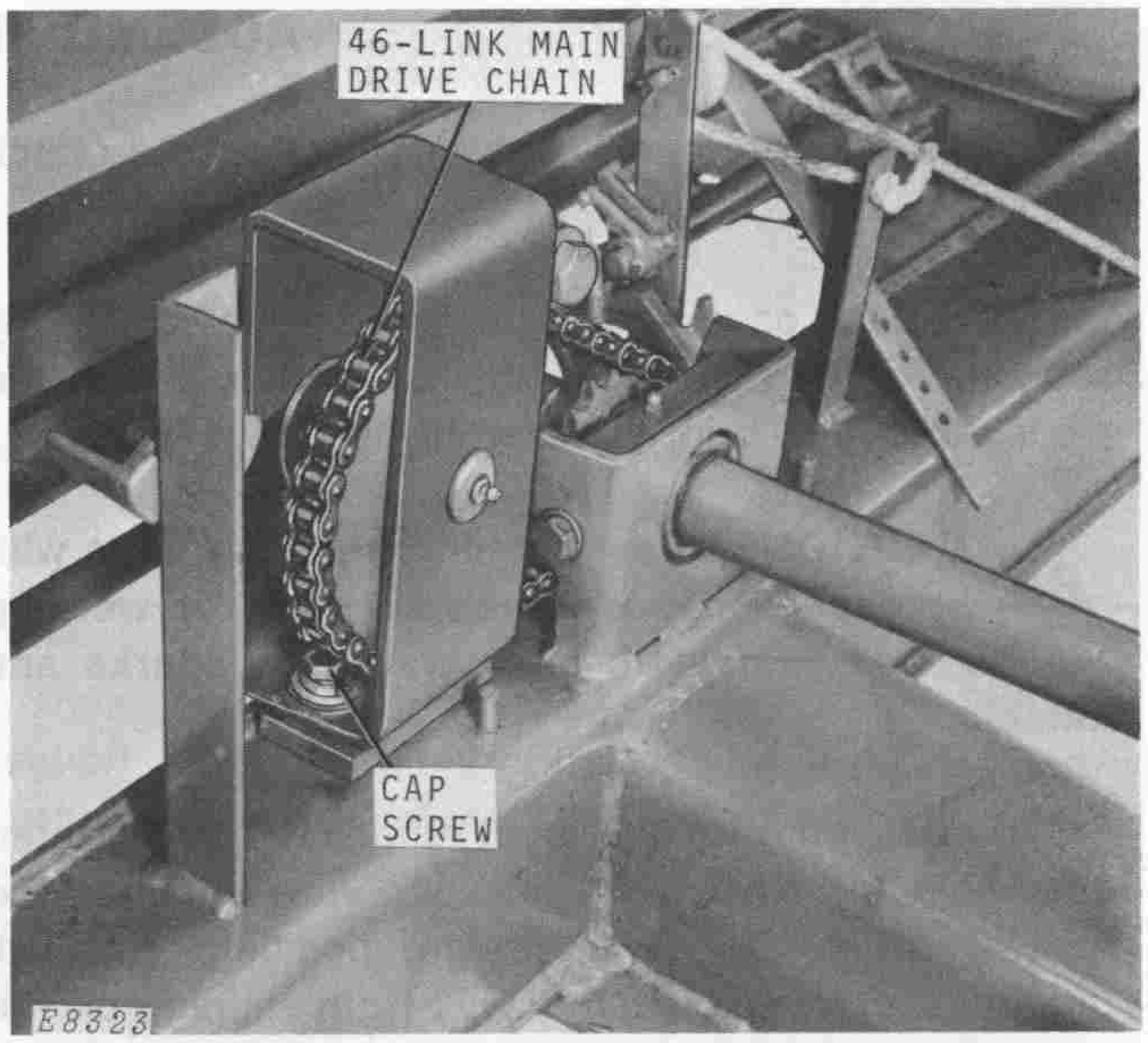
NOTE: If the 1/2 x 1-inch locking cap screws in rear PTO bearing are removed, they must be replaced with new cap screws, E50083, to retain their locking quality. Tighten cap screws to 85 ft-lbs torque.

On 34 Spreader, install 1000 rpm spring clutch on shaft. Tighten slotted nut until cotter pin can be installed.

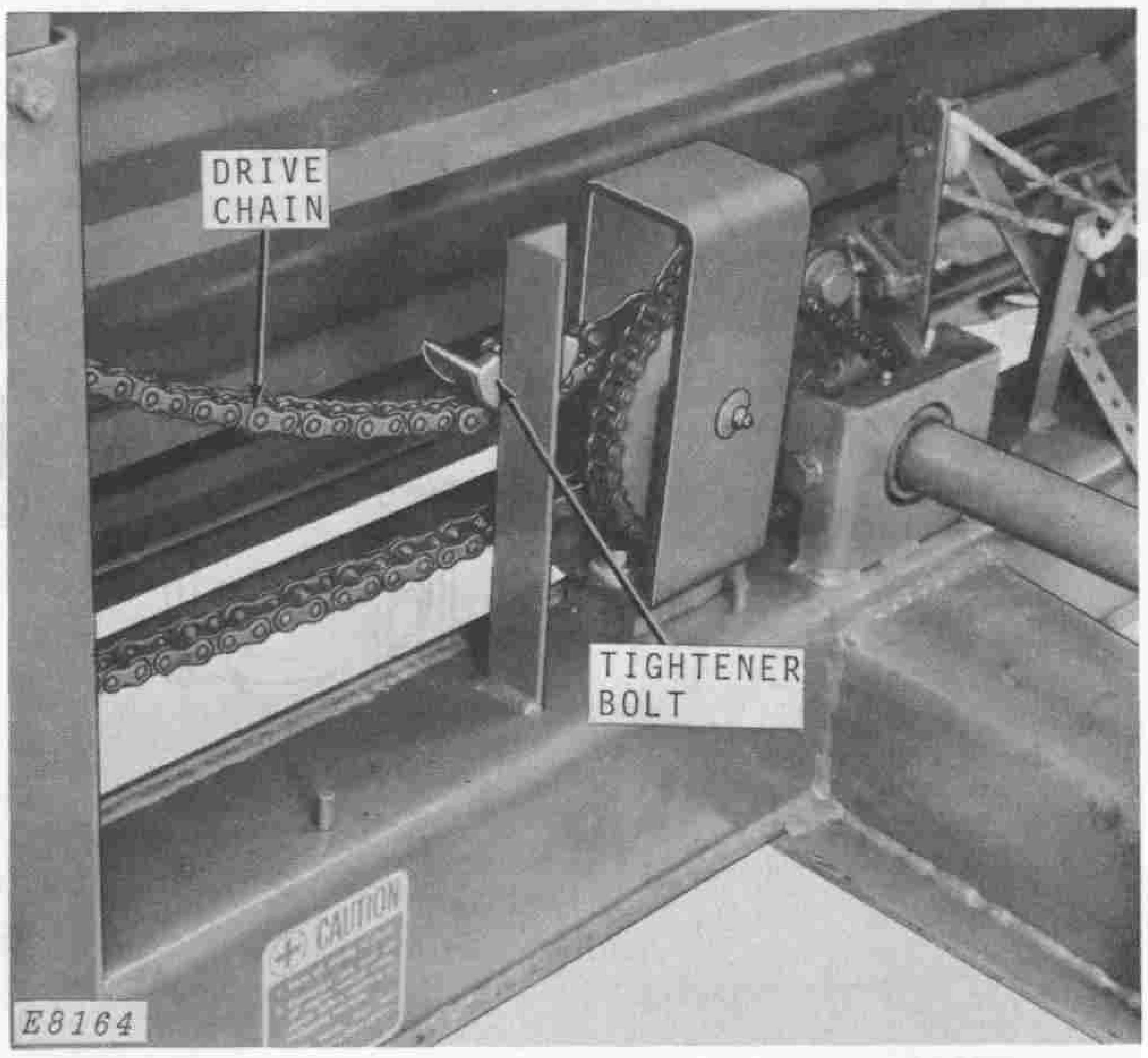
On 40 Spreader, install 18-tooth sprocket with plain washer and groove pin on shaft. Install with hub to rear of spreader.



Install double sprocket with spacer between bracket and hitch with two 1/2 x 1-1/2-inch cap screws, 5/64 x 9/16 I.D. x 1-3/8-inch plain washers, and two lock washers under bolt heads. Do not tighten.



Install 46-link main drive chain. Slide sprocket assembly until chain is finger tight. Tighten cap screw.



Remove 16 regular links and one offset link from drive chain. Reinstall drive chain with the connector link furnished.

Tighten chain so it is finger tight. Tighten bolt in chain tightener.

Adjust spring clutch as shown on pages 17-20.

Reinstall front sheet on 34 Spreader.

Reinstall front sheet and PTO shield on 40 Spreader.

ASSEMBLING GEAR CASE

The component parts of the gear case and clutch are shown below.

If the gear case should be disassembled for any reason, reassemble the parts as shown. Clean the parts thoroughly prior to assembly.

⚠ **CAUTION: When cleaning machine parts with kerosene or diesel fuel, be sure the working area is well ventilated, and away from sparks and flames.**

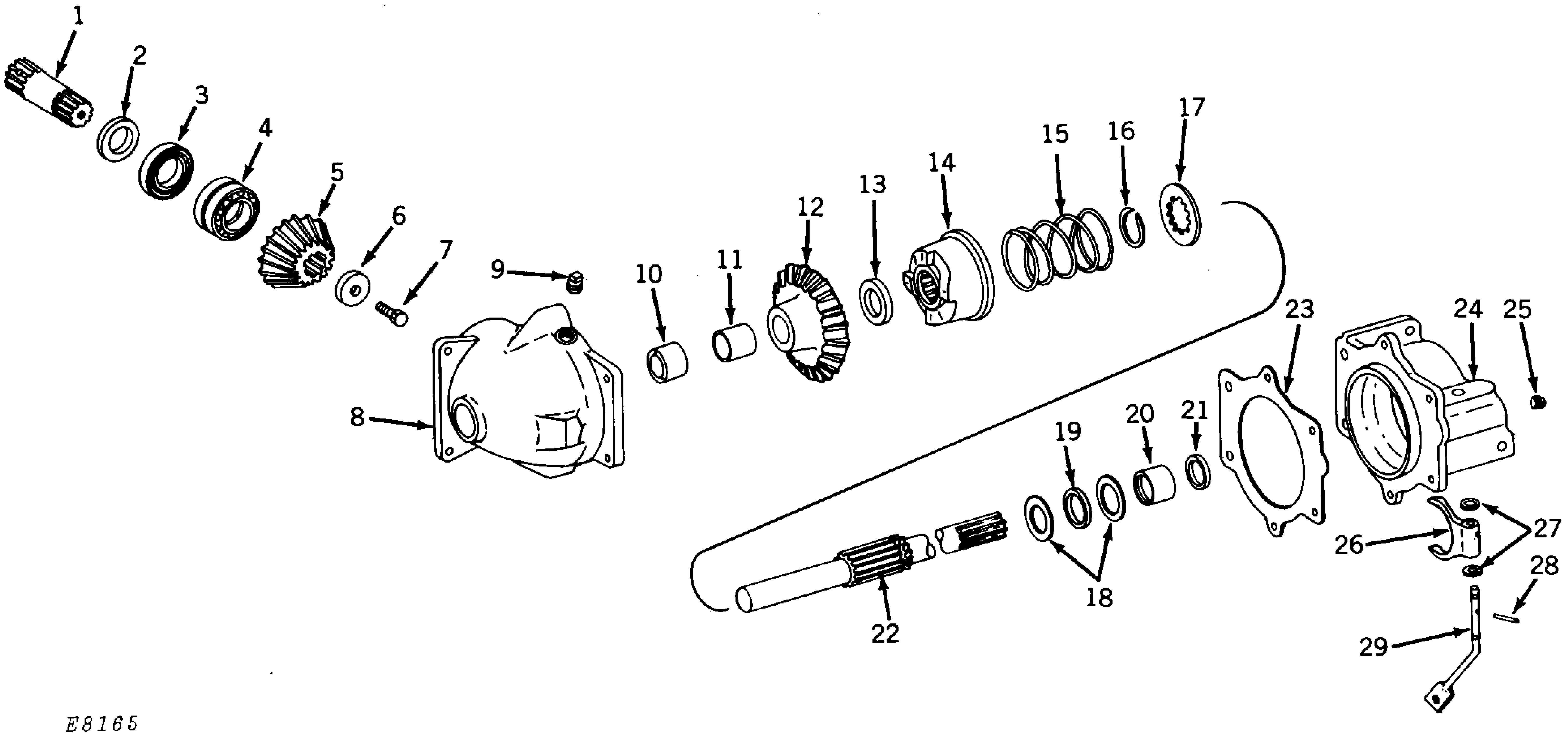
When assembling the input shaft (22) and related parts into the front gear case, be sure to retain the input shaft in the most forward position. This will prevent the splined washer (17) from slipping off the external spline on the input shaft.

The output shaft bearing (4) must be replaced as a set.

After the gear case has been assembled, rotate the input shaft to make sure the bevel gears are not binding. If binding exists, install additional shims (23) until shaft rotates freely.

NOTES: 1. If the 1/2 x 1-inch locking cap screw (7) in the end of the output shaft is removed, it must be replaced with a new cap screw, E50083, to retain its locking quality. Tighten cap screw to 85 ft-lbs torque.

2. Always fill the gear case with SAE 80 multipurpose-type gear lubricant to the level of the check plug (1 U.S. quart capacity) before operating the spreader.



E8165

1—Beater Drive Shaft
2—Spacer
3—Seal
4—Output Shaft Bearing
5—Bevel Gear, 18-Tooth
6—Special Washer, 5/16 x 17/32 x 1-1/2-Inch
7—Locking Cap Screw, 1/2 x 1-Inch
8—Rear Gear Case Housing
9—Filler Plug, 3/4-Inch
10—Needle Bearing
11—Bushing
12—Bevel Gear, 26-Tooth
13—Thrust Washer
14—Sliding Clutch
15—Beater Clutch Spring
16—Snap Ring
17—Splined Washer
18—Thrust Washer
19—Needle Bearing
20—Needle Bearing
21—Oil Seal
22—Input Shaft
23—Shim
24—Front Gear Case Housing
25—Pipe Plug, 1/2-Inch
26—Clutch Fork
27—O-Rings
28—Spring Pin
29—Declutching Arm

Trouble Shooting

The majority of operating problems that occur with the spreader and attachments can be traced to improper adjustments or delayed service. The following chart is designed to help you when a problem develops, by suggesting a probable cause and the recommended solution.

These suggested remedies should be applied with caution. Make certain that the source of the problem is not located someplace other than where the problem exists. A thorough understanding of the spreader and attachments is a must if operating problems are to be corrected satisfactorily.

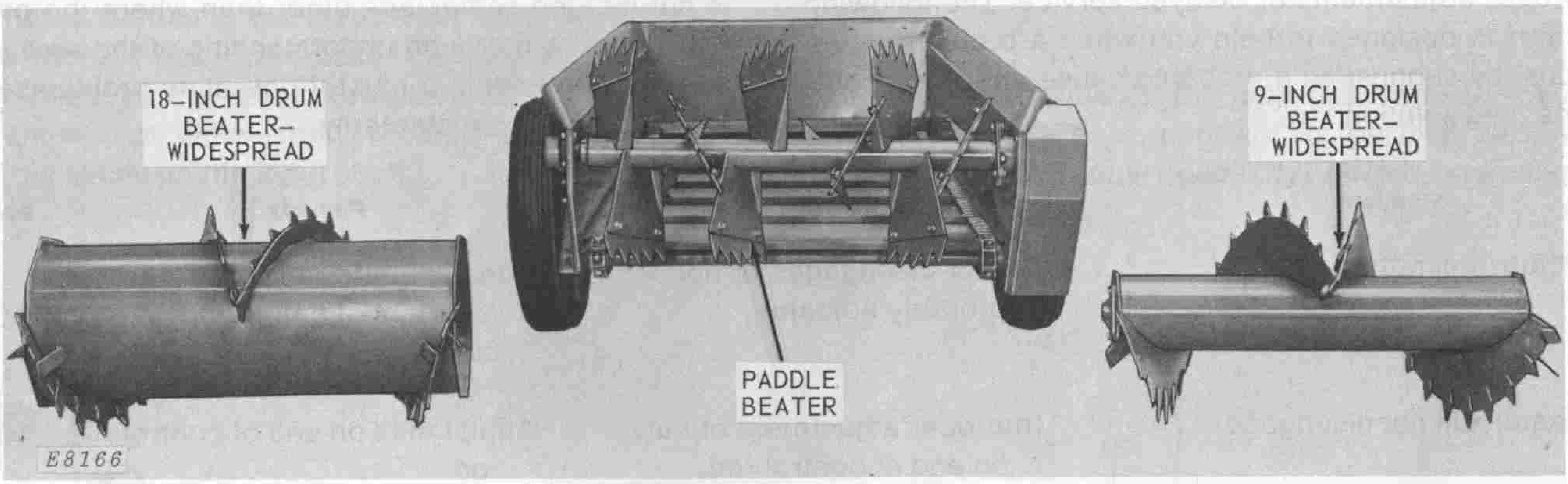
Problem	Cause	Remedy	Page
Beater will not operate.	Beater disengaged or not properly adjusted.	Engage beater and check adjustment of beater throw-out nuts.	15
Beater will not disengage.	Improper adjustment of nuts on end of control rod.	Adjust nuts on end of control rod.	15
Chain jumps off side shaft drive sprocket.	Chain not adjusted properly.	Adjust drive chain tension.	16
Ratchet does not feed properly for feed control setting.	Improper adjustment of ratchet feed.	Adjust ratchet feed.	15
Extreme sag in exposed portion of bed conveyor chain.	Excessive slack in bed conveyor chain.	Adjust conveyor chain tension.	21
Excessive weight on tractor drawbar.	Axle positioned too far to the rear.	Adjust axle position.	3
Insufficient weight on tractor drawbar.	Axle positioned too far to the front.	Adjust axle position.	3
Spring clutch slips when tractor PTO is engaged.	Obstructions of drive train or overloaded spreader.	Check for obstructions or overloads. Then check and adjust spring clutch if necessary.	17

⚠ **CAUTION: Disengage tractor PTO and shut off tractor engine before servicing, unclogging, or adjusting the spreader.**

Attachments

The following attachments may be installed on either the 34 or 40 Spreader.

BEATERS



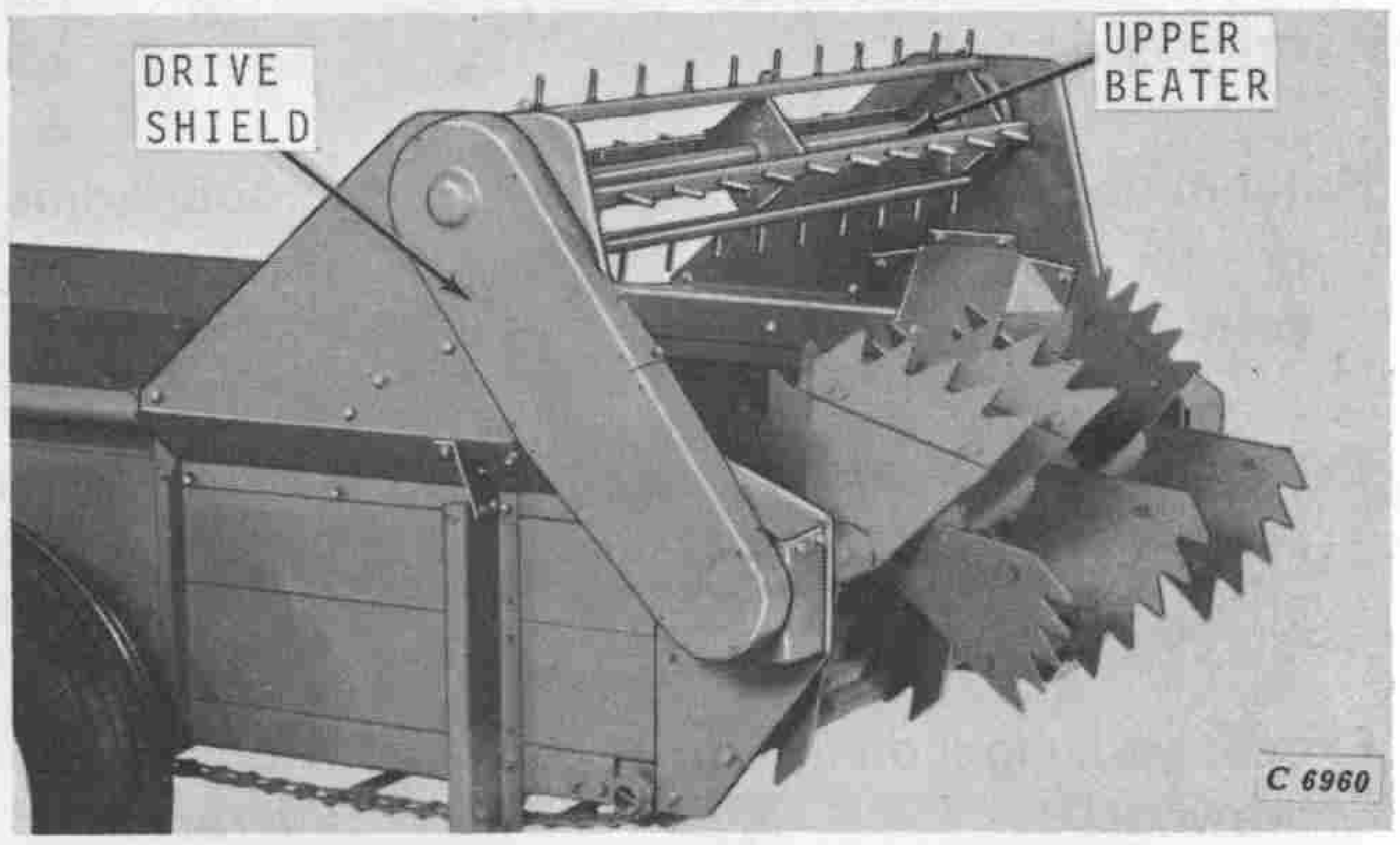
A 9- or 18-inch drum beater-widespread and a paddle beater are available as optional equipment.

The 18-inch drum beater widespread is designed for manure that has little, if any, bedding. The drum nearly fills the rear of the spreader and prevents soft manure from running out. In many cases, the drum eliminates the need for an endgate.

The 9-inch drum beater widespread plugs some of the gap at the rear of the spreader but still handles strawy, packed manure quickly. It is designed for operations having a variety of spreader requirements from tough manure to soft.

The paddle beater has more teeth than the drum beater widespread and takes deeper bites for shredding and spreading hard, packed, strawy manure in a hurry. Teeth are easy to replace.

UPPER BEATER



The upper beater is primarily designed for use with the paddle beater. The upper beater does a thorough job of shredding the manure and helps prevent chunks of manure from being pulled over the main beater. *NOTE: Different side sheets are used on the 34 and 40 Spreaders to compensate for different spreader side heights.*

REAR ENDGATE

The rear endgate helps contain semi-liquid manure while transporting the spreader. Also, the rear endgate permits the spreader to unload loose, strawy dairy manure with the endgate in place.

The rear endgate has a door which is controlled by a trip rope at the front of the spreader.

The endgate is quickly removed or reinstalled by one man with a minimum of effort.

REAR ENDGATE EXTENSION

A hinged extension is available for the rear endgate when a higher top edge is needed to handle semi-fluid materials in hilly terrain. The rear portion of the extension can be pivoted down out of the way to allow loose, strawy manure to be spread without damaging the spreader.

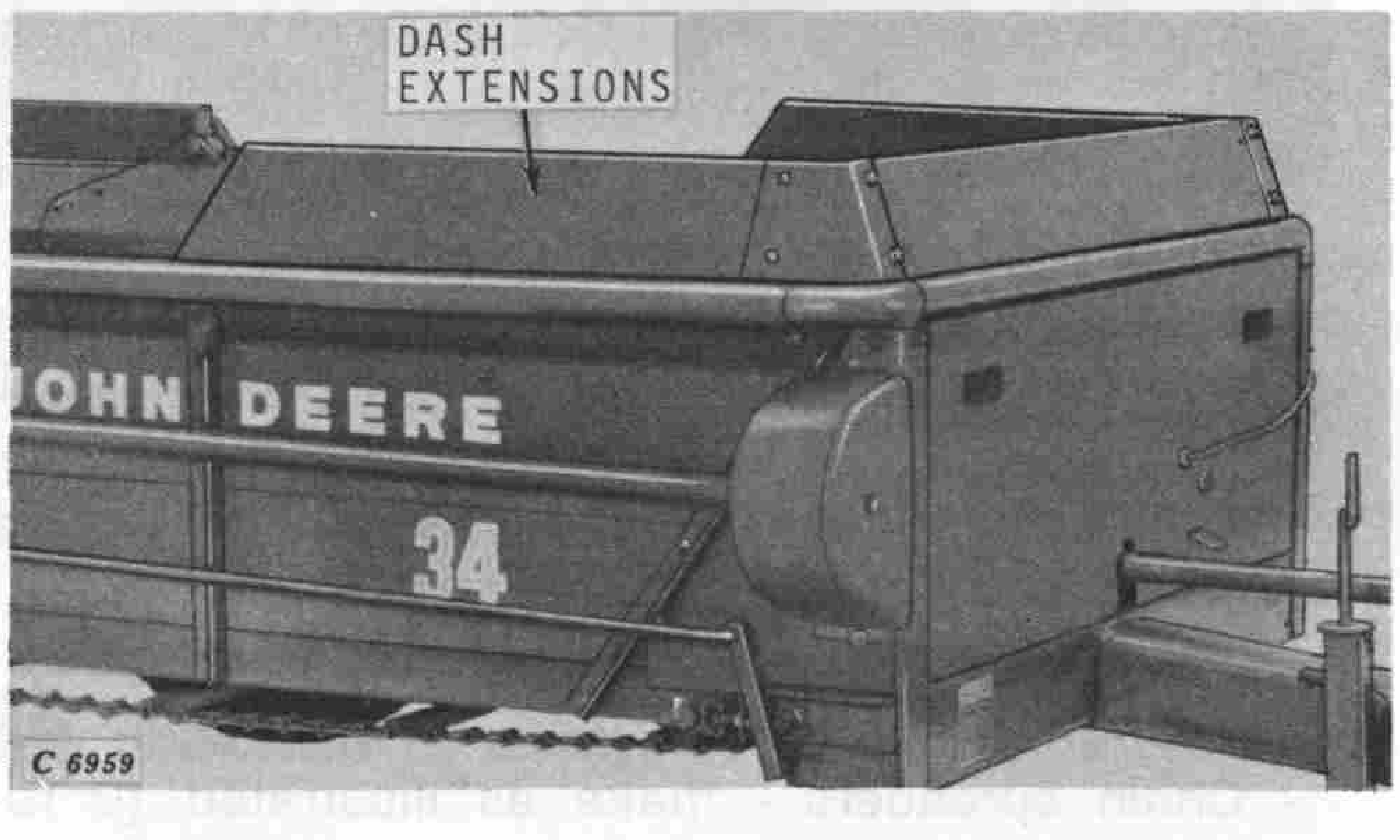
POWER-SEAL ENDGATE

The power-seal endgate helps contain semi-liquid manure during transport and operation.

The power-seal endgate is raised by a telescoping push rod which is activated by a tractor remote hydraulic cylinder.

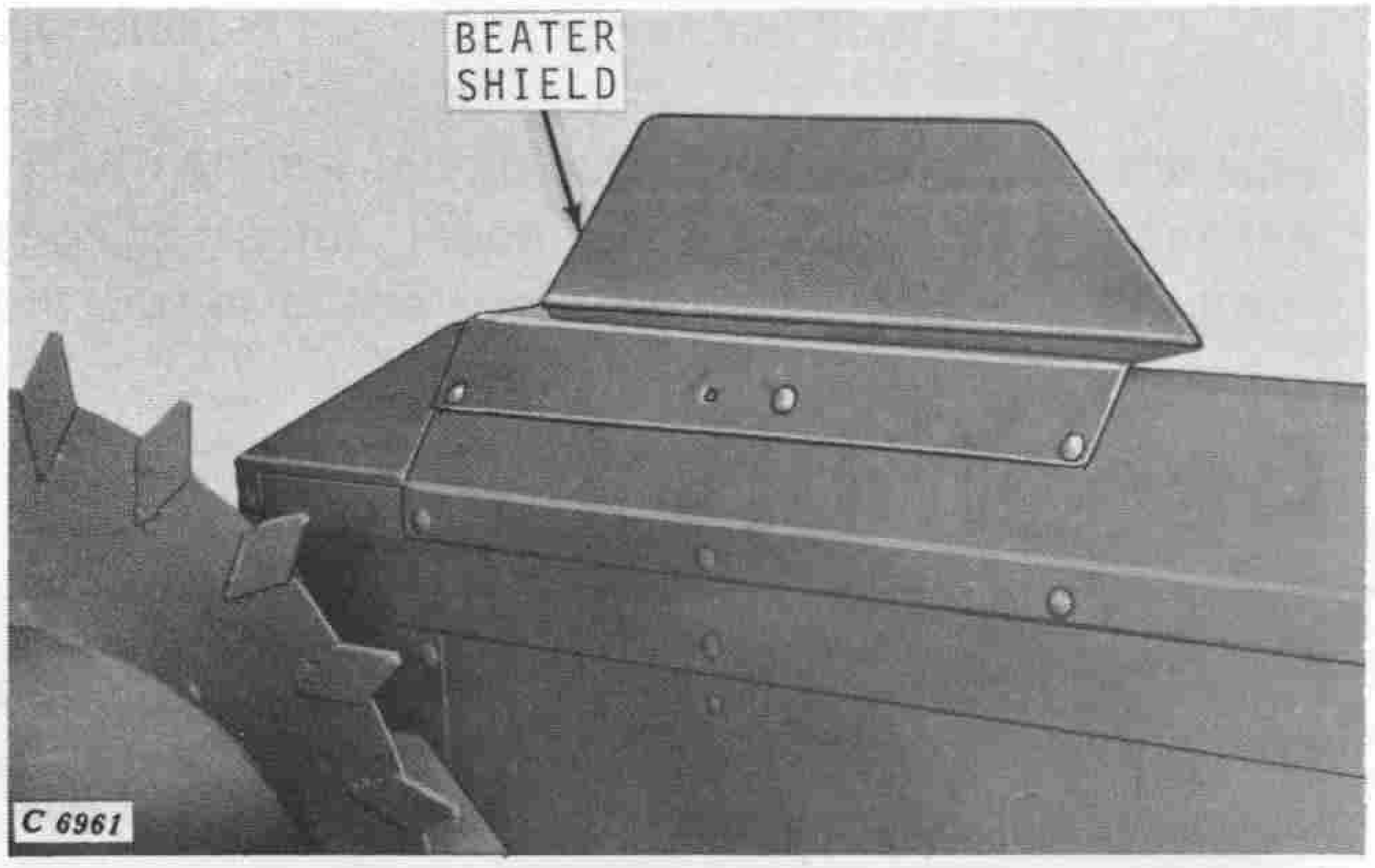
The power-seal endgate lowers by its own weight when the cylinder rod is retracted, thus eliminating the danger of damage to the endgate or spreader if an object becomes lodged under the endgate.

DASH EXTENSIONS



The dash extensions help prevent semi-liquid manure from spilling over the front of the spreader while transporting.

BEATER SHIELDS



The beater shields help keep large chunks of manure from being carried over the sides of the spreader.

Assembly

The John Deere 34 and 40 Spreaders are available with 540 or 1000 rpm PTO drive. There are three beater options; paddle beaters, and 9-inch or 18-inch drum beater-widespreads with regular or heavy-duty conveyor chains. The wheels are available in either implement-type with drop center or truck-type with demountable side rings. All wheels are available with or without tires.

Unstack the spreaders, and assemble the attachments as illustrated on the following pages. The illustrations show clearly the procedure to unstack the spreaders and how to assemble the attachment parts in their proper order.

After unpacking and placing all parts where they will be handy, follow all the instructions carefully. Practically all trouble with new machines is due to improper assembly and lack of lubrication.

Do not completely tighten the bolts until each assembly operation is completed.

The terms "Right" and "Left," "Front" and "Rear" refer to the operator's "Right" and "Left," "Front" and "Rear" when facing in the direction of machine forward travel.

UNLOADING SPREADERS

Spreaders stacked two or three high can be unstacked directly from the flat car or truck. Also, stacked spreaders can be transported as a unit to a more suitable unstacking location by installing tires and wheels on the bottom spreader.

By preparing the stacked spreaders for transport, the stack can be pulled beside a loading dock, ramp, flat car, etc. for an easier, quicker unstacking method. With this method, a tractor equipped with a loader can have a lesser lifting height.

IMPORTANT: Remove all shipping braces, banding, blocks, etc., which secure spreader stack to shipping vehicle, before unstacking spreaders.

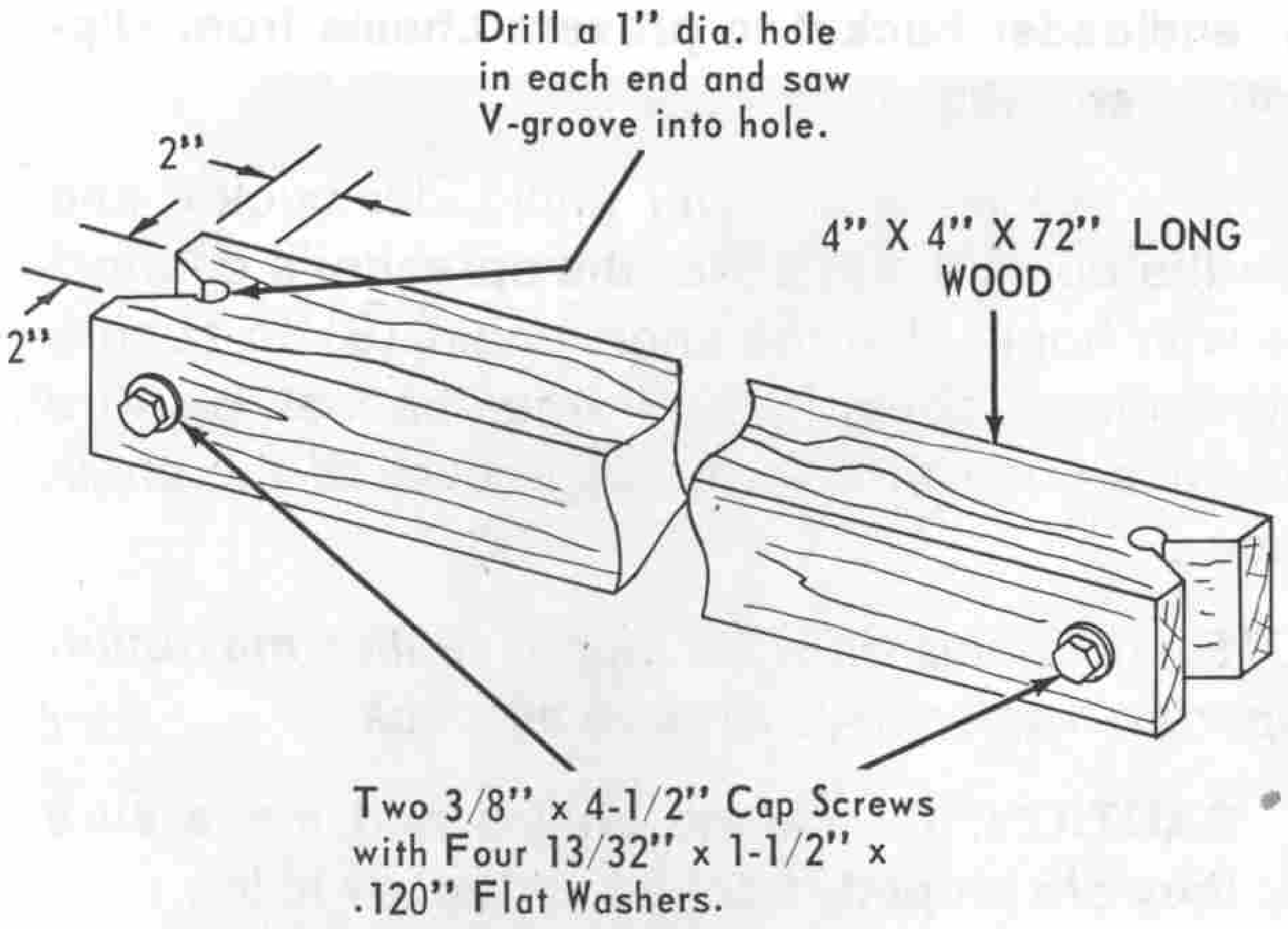
After removing the spreader from the shipping position, it is best to install the wheels before lowering the spreader to the ground.

Place the jack in the park position. Then the spreader can be lowered to the ground.

Read and observe the following combination of illustrations and instructions carefully. If the spreaders are to be unstacked directly from flat car or truck, omit "Installing Jack, Tires, and Wheels for Transporting Stacked Spreaders." Proceed directly to "Unstacking."

⚠ **CAUTION: Unstack only one spreader at a time with shipping vehicle level. Be certain to practice safety.**

The unstacking tools required are:
- Tractor with a heavy-duty loader (or fork truck with tines long enough to reach under both frame channels) with a minimum lifting capacity of 2400 pounds and lifting height clearance of 116 inches. NOTE: Weld clips to the top corners of the end-loader bucket to prevent chains from slipping off when lifting.
- Hydraulic jack - heavy-duty, 5 ton.
- Wood blocks - dimension 4 x 4 x 12 inches (10 required).
- Chain with hooks - 3/8-inch proof coil x 144 inches long (2 required).
- Chain with hooks - 3/8-inch proof coil x 24 inches long.
- Chain spreaders - make as illustrated (2 required)

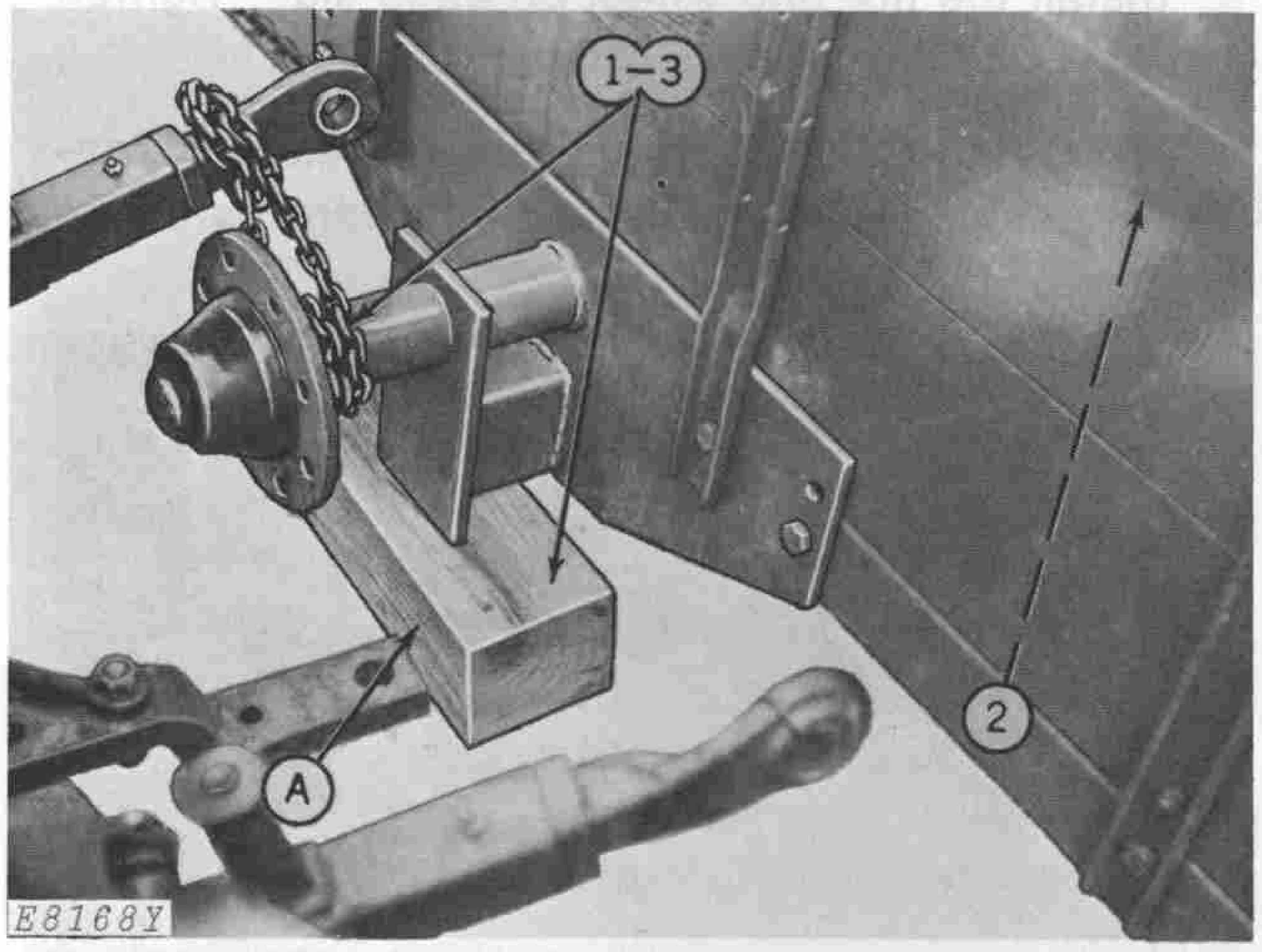

Drill a 1" dia. hole in each end and saw V-groove into hole.
2"
2"
4" X 4" X 72" LONG WOOD
Two 3/8" x 4-1/2" Cap Screws with Four 13/32" x 1-1/2" x .120" Flat Washers.

E8167

Chain Spreader

Installing Jack and Wheels with Tires for Transporting Stacked Spreaders

CAUTION: Stacked spreaders will be unstable if one side is raised 12 inches or greater above other side with the shipping vehicle on level ground.



E8168Y

1. Wrap a chain around the bottom spreader axle spindle next to dock and the tractor's 3-point hitch arm. Lift the stack approximately 8 inches. NOTE: Endloader can be used if the lifting capacity is adequate.

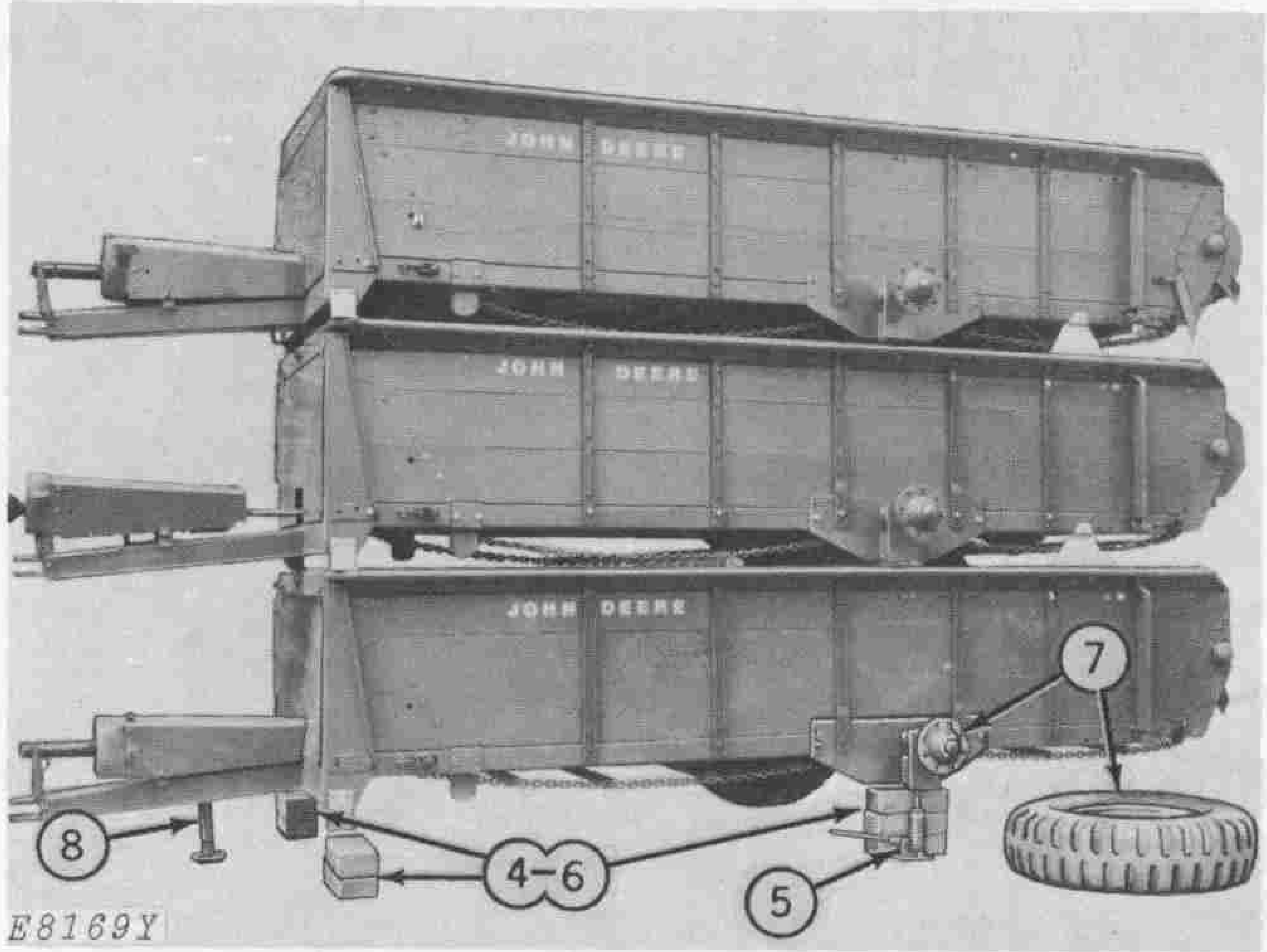
CAUTION: Place two 4 x 4-inch blocks (A) under axle for safety.

2. Place a 4 x 4-inch block under the center of the spreader axle.

3. Remove safety blocks and lower the lifting mechanism.

Manually tilt the stack towards the tractor until the axle touches the shipping vehicle floor.

Place a 4 x 4-inch block under the axle on the side opposite tractor. Place a 4 x 4-inch block under the front corner of the spreader frame opposite the tractor.



E8169Y

4. Re-lift the spreader stack with tractor and place a 4 x 4-inch block under axle on dock side, and under front frame corner. Spreader should now be level with 4 x 4-inch blocks under each end of the axle and under two front corners. Unhook and move tractor.

5. Place hydraulic jack under the spreader axle spindle and lift stack approximately 4 inches.

6. Place a 4 x 4-inch block under the front corner and the axle. Repeat this procedure to lift the opposite side 4 inches. Continue this procedure until the stack is high enough to install the wheels.

CAUTION: DO NOT LIFT the stack more than 4-inches at a time to prevent blocks from tumbling.

7. Install the tire and wheel on each side with the aid of the hydraulic jack. Tighten the wheel hub bolts to 80 to 100 ft-lbs torque.

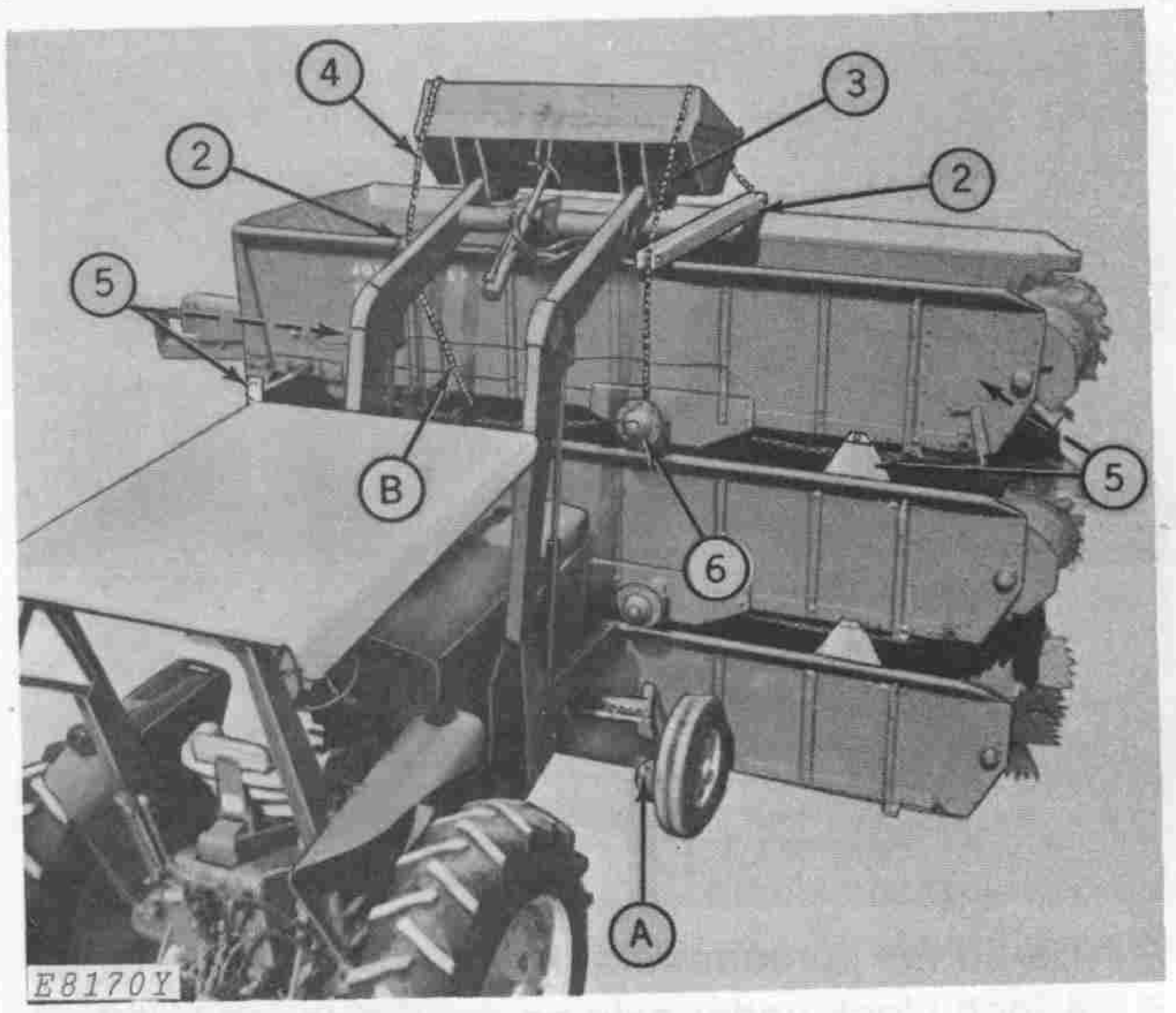
CAUTION: Install truck-type wheels with demountable side rings inward toward spreader box.

8. Lower jack to parking position, and remove blocks. The spreader stack is now ready for transport.

UNLOADING SPREADERS—Continued

Unstacking

CAUTION: Unstack only one spreader at a time with shipping vehicle level. Be certain to practice safety.



1. Raise tractor endloader bucket and drive tractor against stack, with one front tire directly behind the wheel hub (A) of the bottom spreader. Lower endloader bucket until it clears the top spreader sides approximately 6 inches.

2. Place chain spreaders on the side flares.

3. Place long chain over endloader bucket and secure each end to an axle.

IMPORTANT: Be sure the chains are positioned in the V-grooves of the chain spreader.

CAUTION: Weld clips to the top corners of the endloader bucket to prevent chains from slipping off when lifting.

4. Place a long chain over endloader bucket and secure the outside end under the spreader's channel frame with hook. Use the short chain (B) to secure the other end of chain to the frame channel. Be sure the chain is positioned in the V-grooves of the chain spreader.

NOTE: All chains must be taut to realize maximum lift. Operate tractor lift to remove all slack.

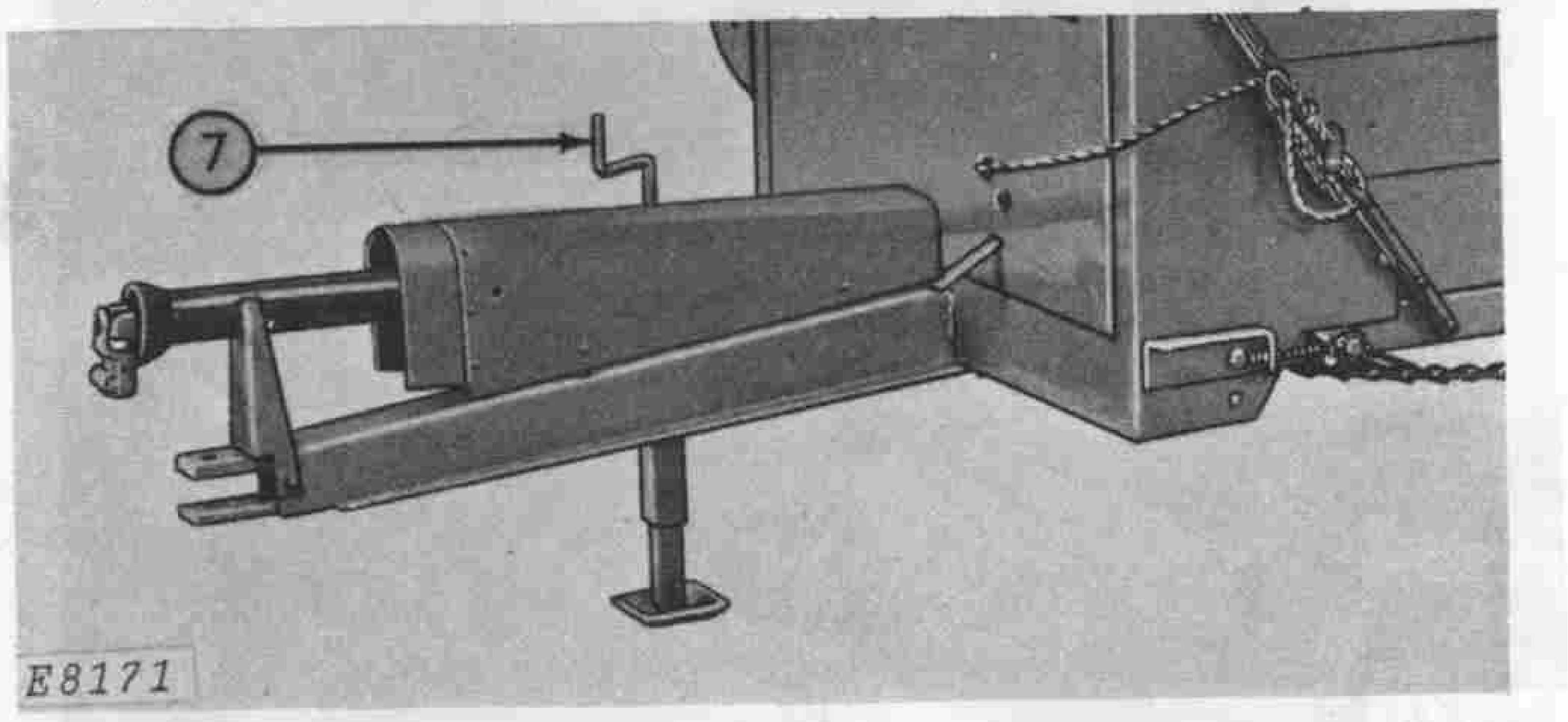
CAUTION: Check the chains and make sure they are properly hooked and ready to lift.

5. Remove mounting bolts from shipping braces on both sides, lift the spreader high enough to clear lower spreader, and slowly back tractor away from stack. When spreader clears stack, slowly lower it until wheels can be installed.

CAUTION: Position blocks under spreader, while installing wheels, to protect against accidental lowering of bucket.

6. Install the tire and wheel on each side. Tighten the wheel hub bolts to 80 to 100 ft-lbs torque.

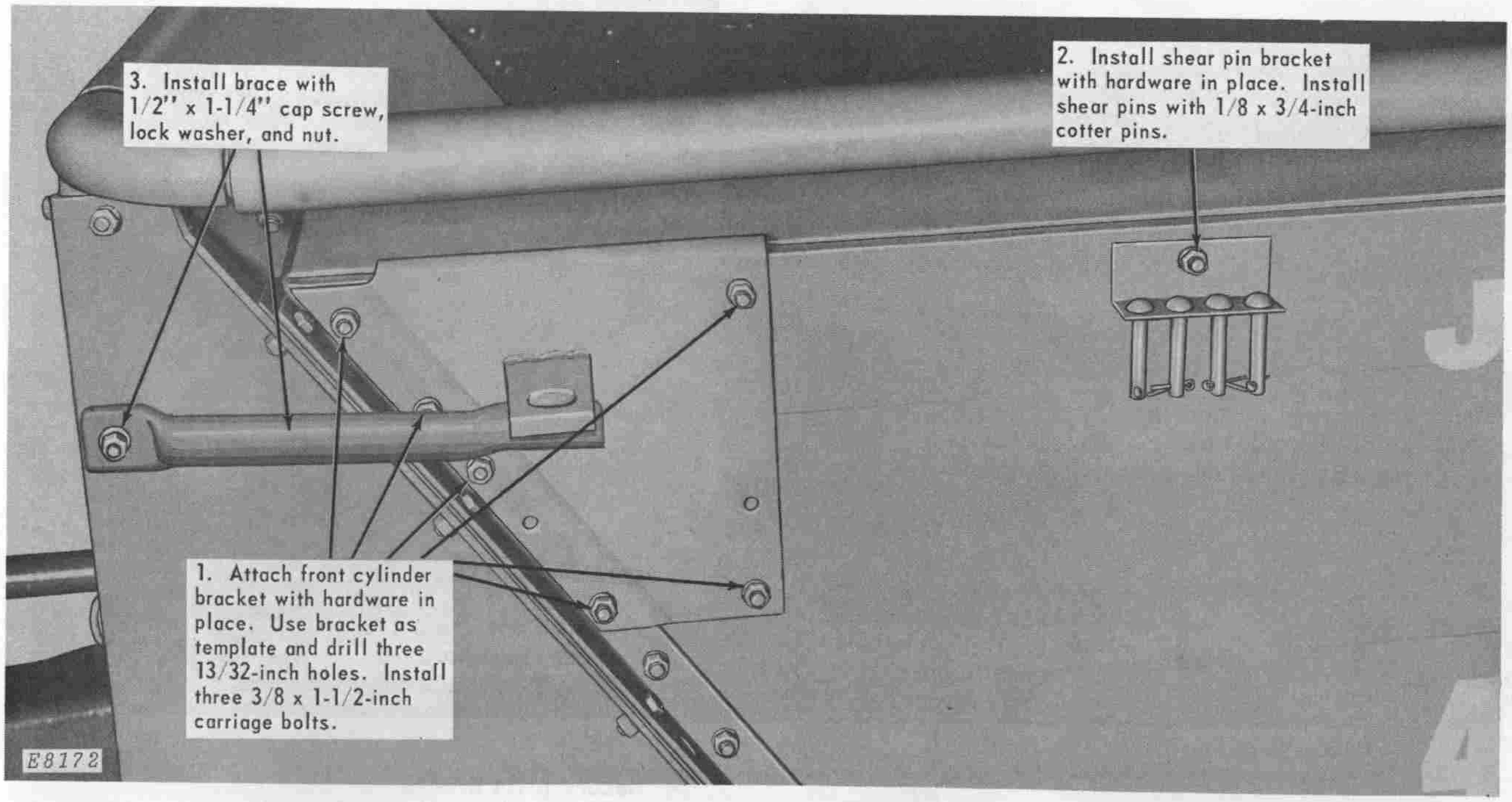
CAUTION: Install truck-type wheels with demountable side rings inward toward spreader box.



7. Lower jack to parking position, and remove blocks and shipping braces. The spreader is now ready for transport.

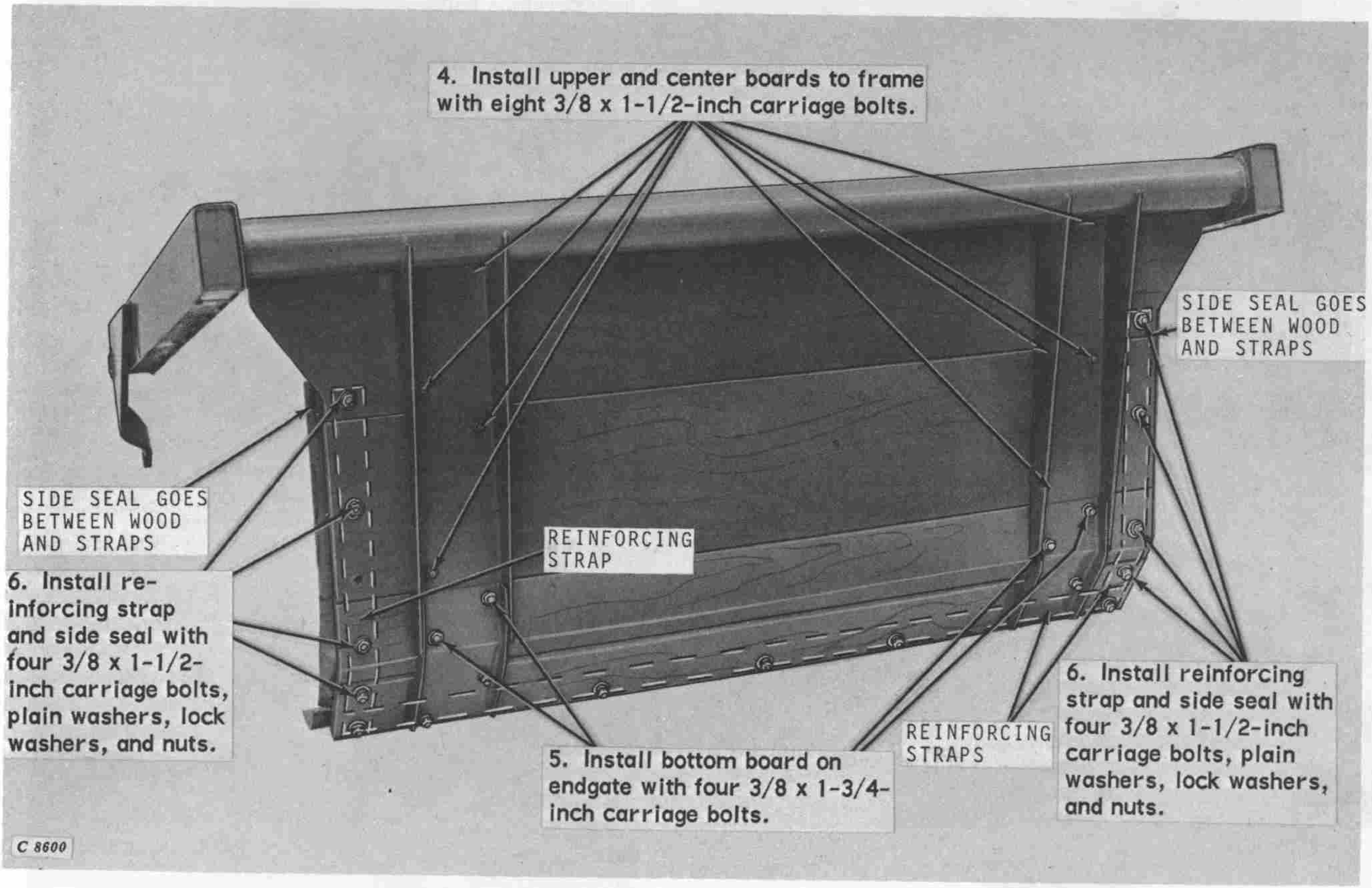
Repeat the complete "Unstacking" procedure for each spreader to be unstacked.

POWER-SEAL ENDGATE


3. Install brace with 1/2" x 1-1/4" cap screw, lock washer, and nut.

2. Install shear pin bracket with hardware in place. Install shear pins with 1/8 x 3/4-inch cotter pins.

1. Attach front cylinder bracket with hardware in place. Use bracket as template and drill three 13/32-inch holes. Install three 3/8 x 1-1/2-inch carriage bolts.


4. Install upper and center boards to frame with eight 3/8 x 1-1/2-inch carriage bolts.

SIDE SEAL GOES BETWEEN WOOD AND STRAPS

SIDE SEAL GOES BETWEEN WOOD AND STRAPS

REINFORCING STRAP

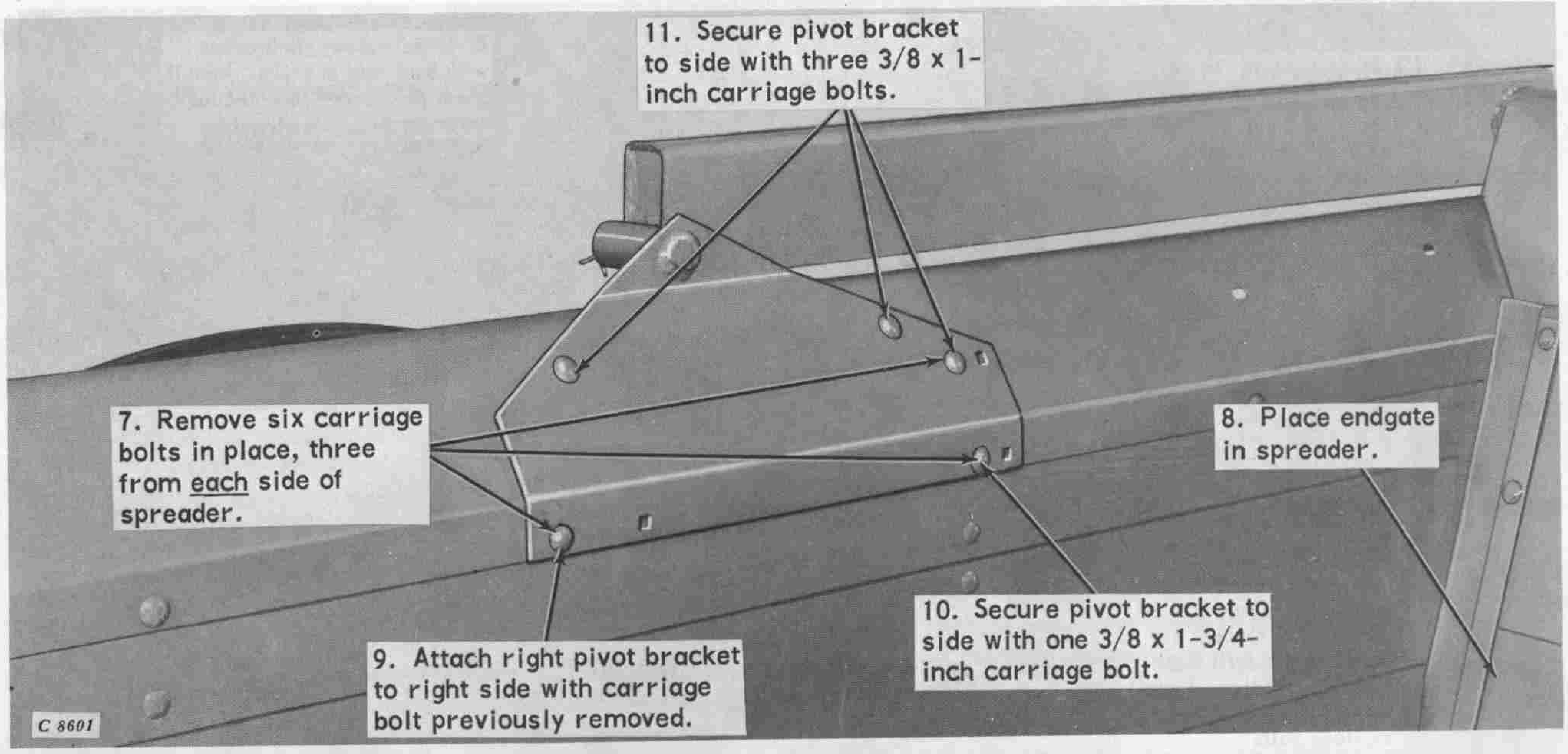
6. Install reinforcing strap and side seal with four 3/8 x 1-1/2-inch carriage bolts, plain washers, lock washers, and nuts.

5. Install bottom board on endgate with four 3/8 x 1-3/4-inch carriage bolts.

REINFORCING STRAPS

6. Install reinforcing strap and side seal with four 3/8 x 1-1/2-inch carriage bolts, plain washers, lock washers, and nuts.

POWER-SEAL ENDGATE—Continued



11. Secure pivot bracket to side with three 3/8 x 1-inch carriage bolts.

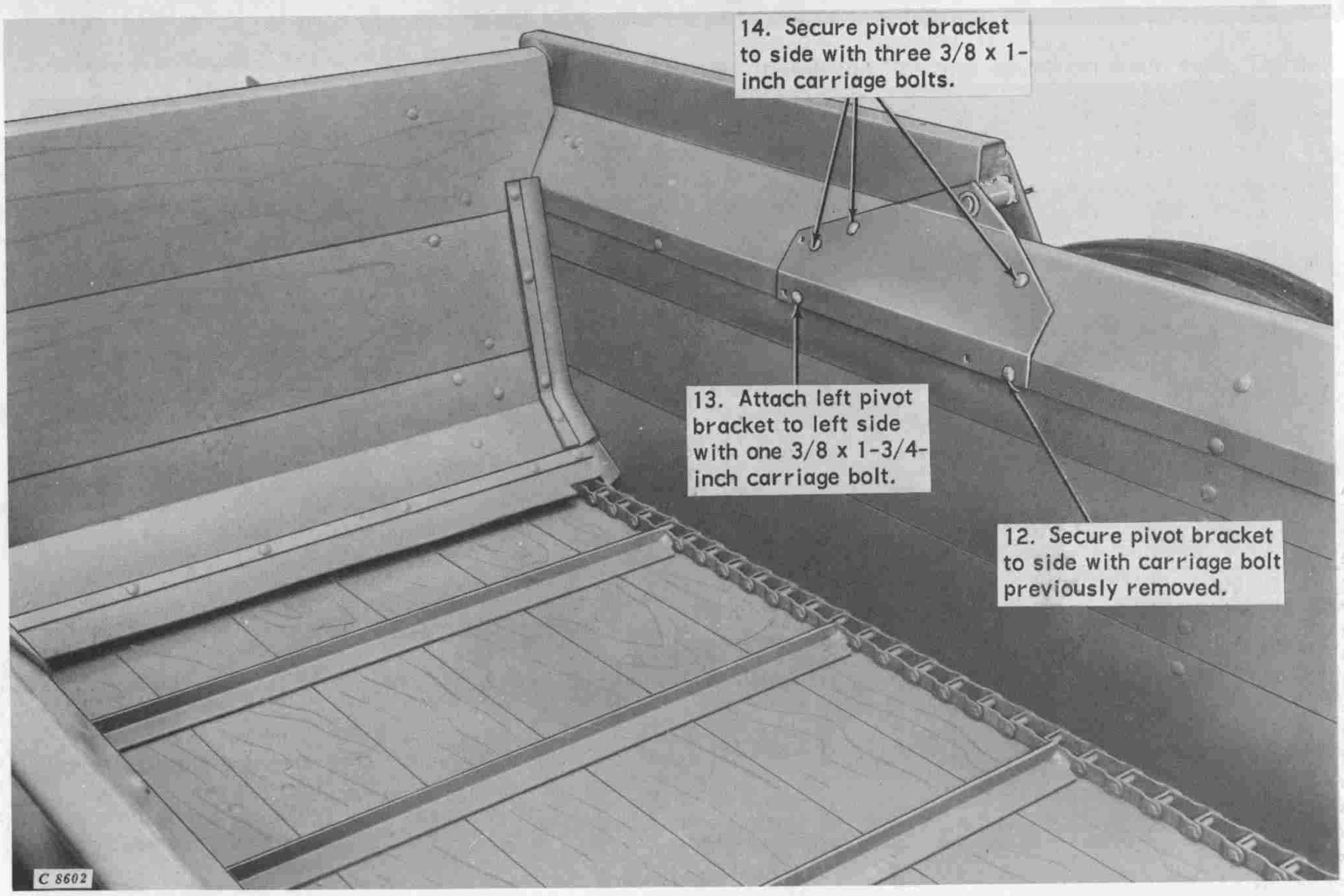
7. Remove six carriage bolts in place, three from each side of spreader.

8. Place endgate in spreader.

10. Secure pivot bracket to side with one 3/8 x 1-3/4-inch carriage bolt.

9. Attach right pivot bracket to right side with carriage bolt previously removed.

C 8601

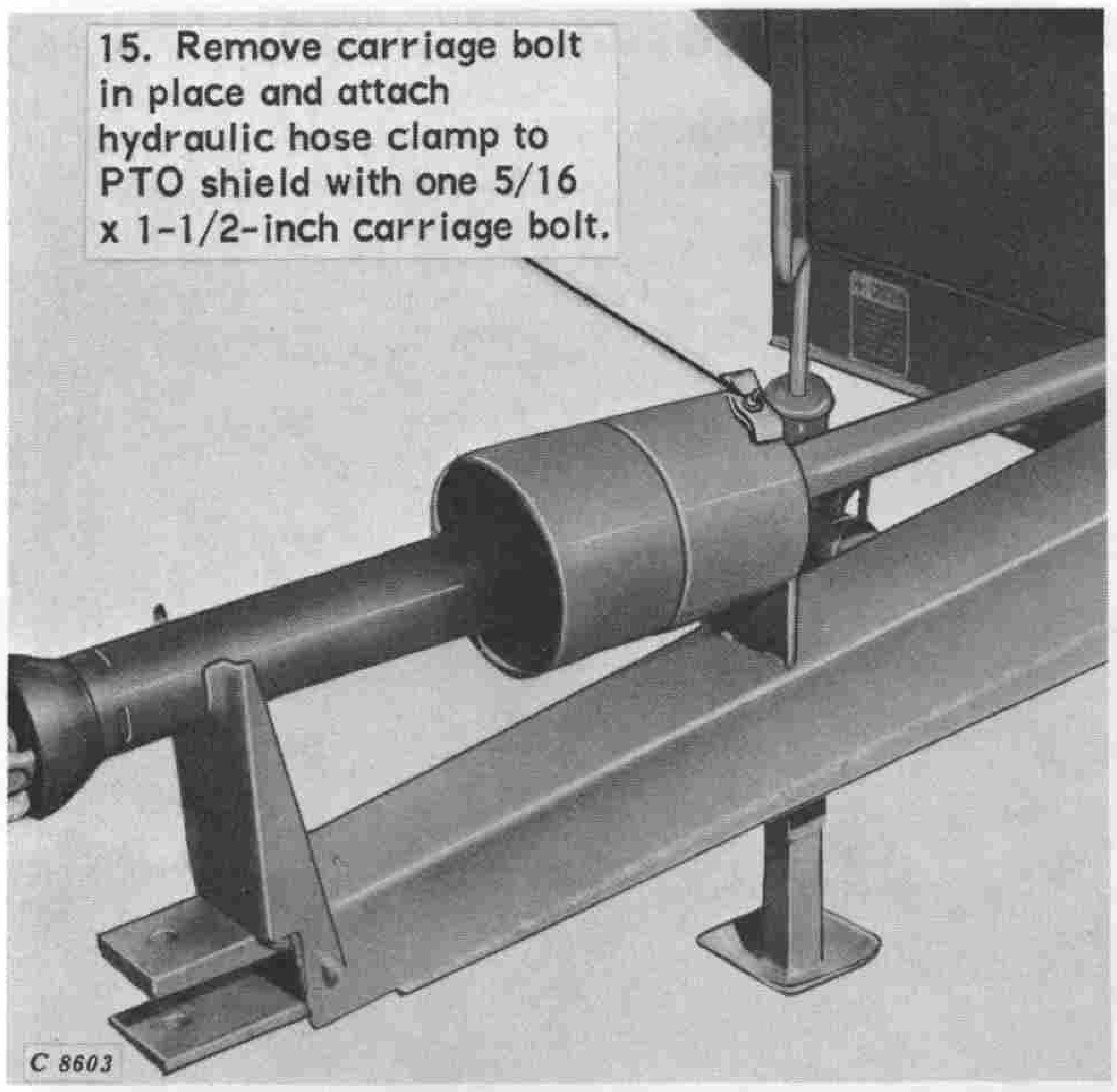


14. Secure pivot bracket to side with three 3/8 x 1-inch carriage bolts.

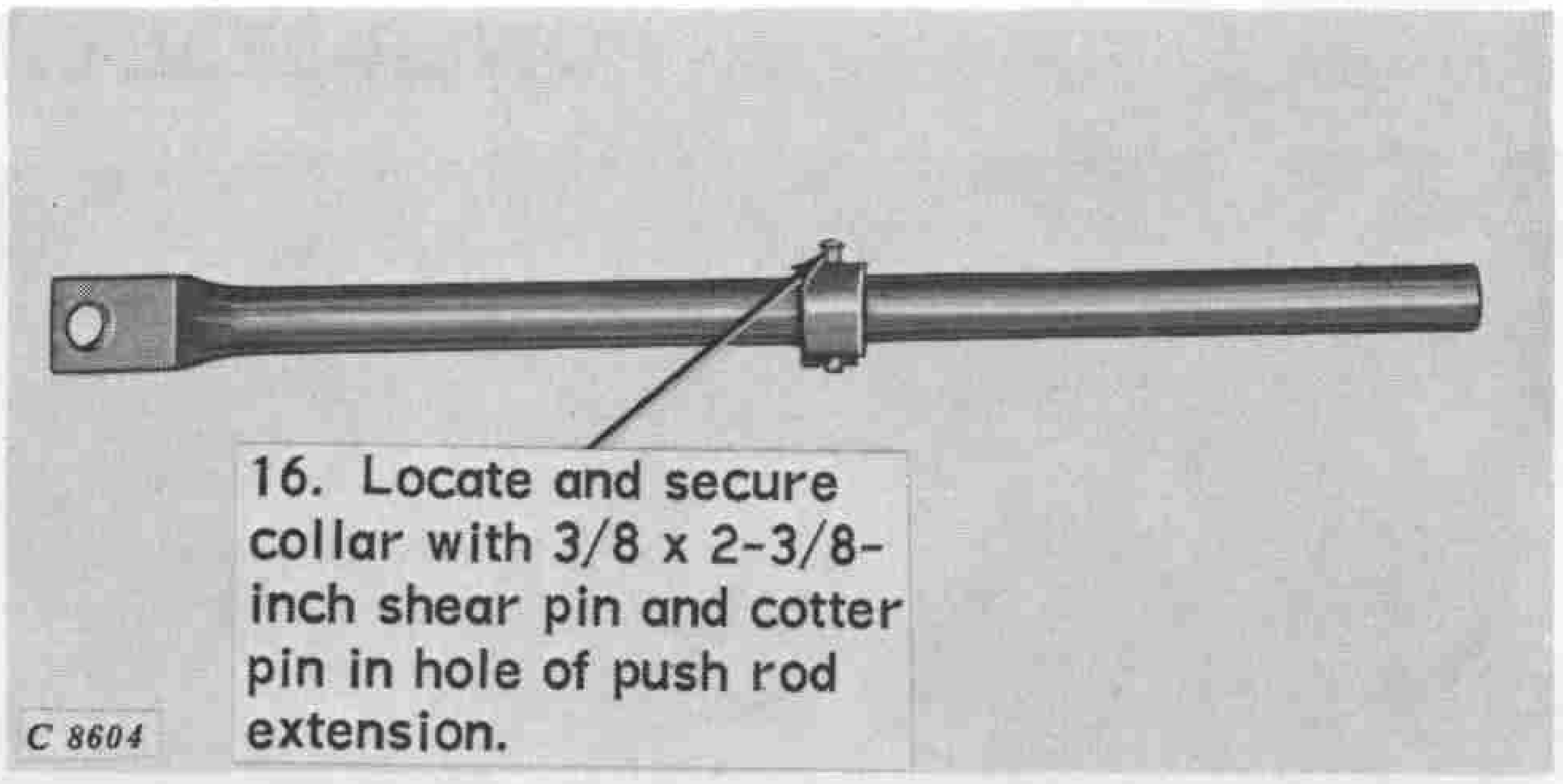
13. Attach left pivot bracket to left side with one 3/8 x 1-3/4-inch carriage bolt.

12. Secure pivot bracket to side with carriage bolt previously removed.

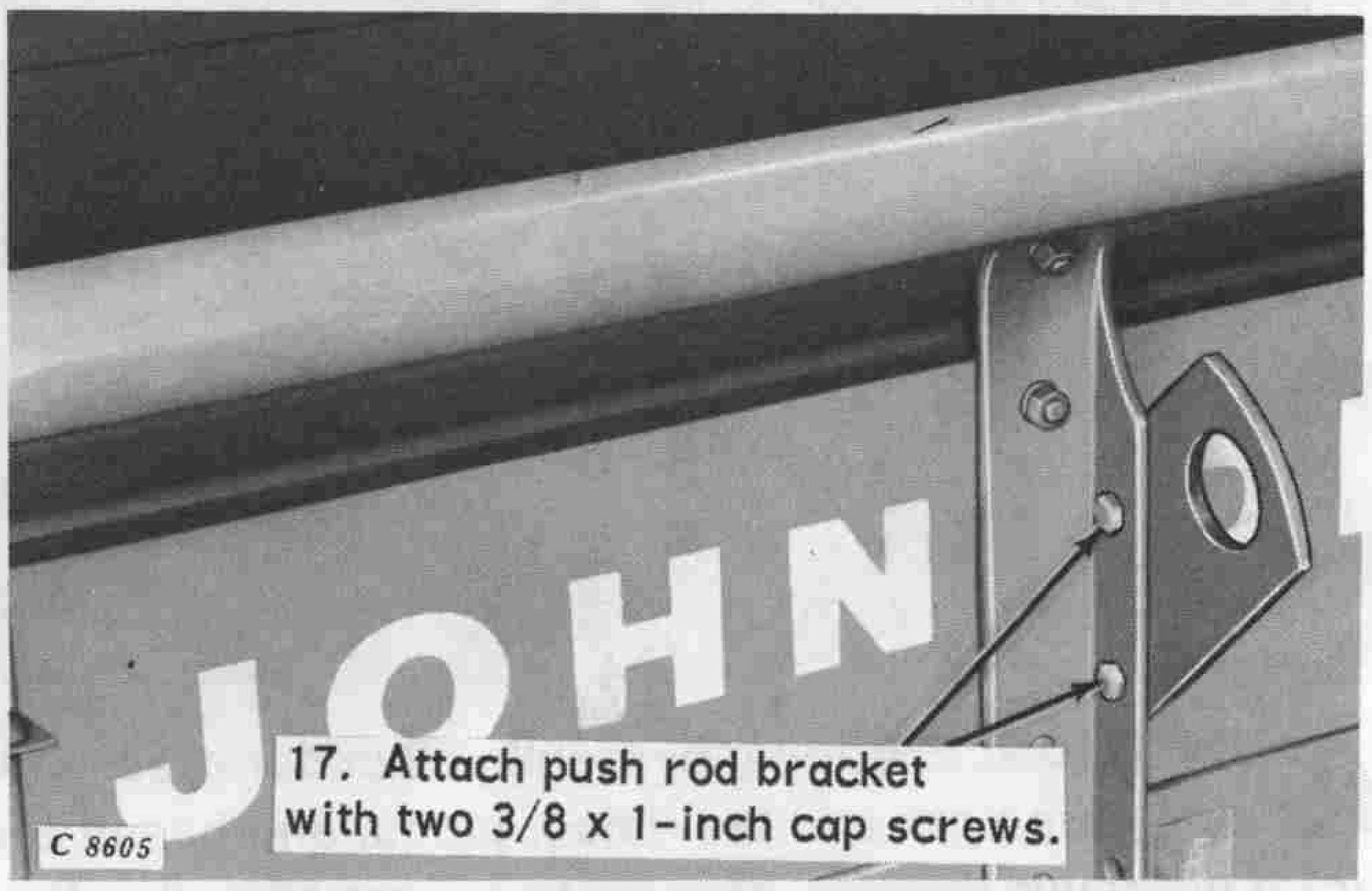
C 8602


15. Remove carriage bolt in place and attach hydraulic hose clamp to PTO shield with one 5/16 x 1-1/2-inch carriage bolt.

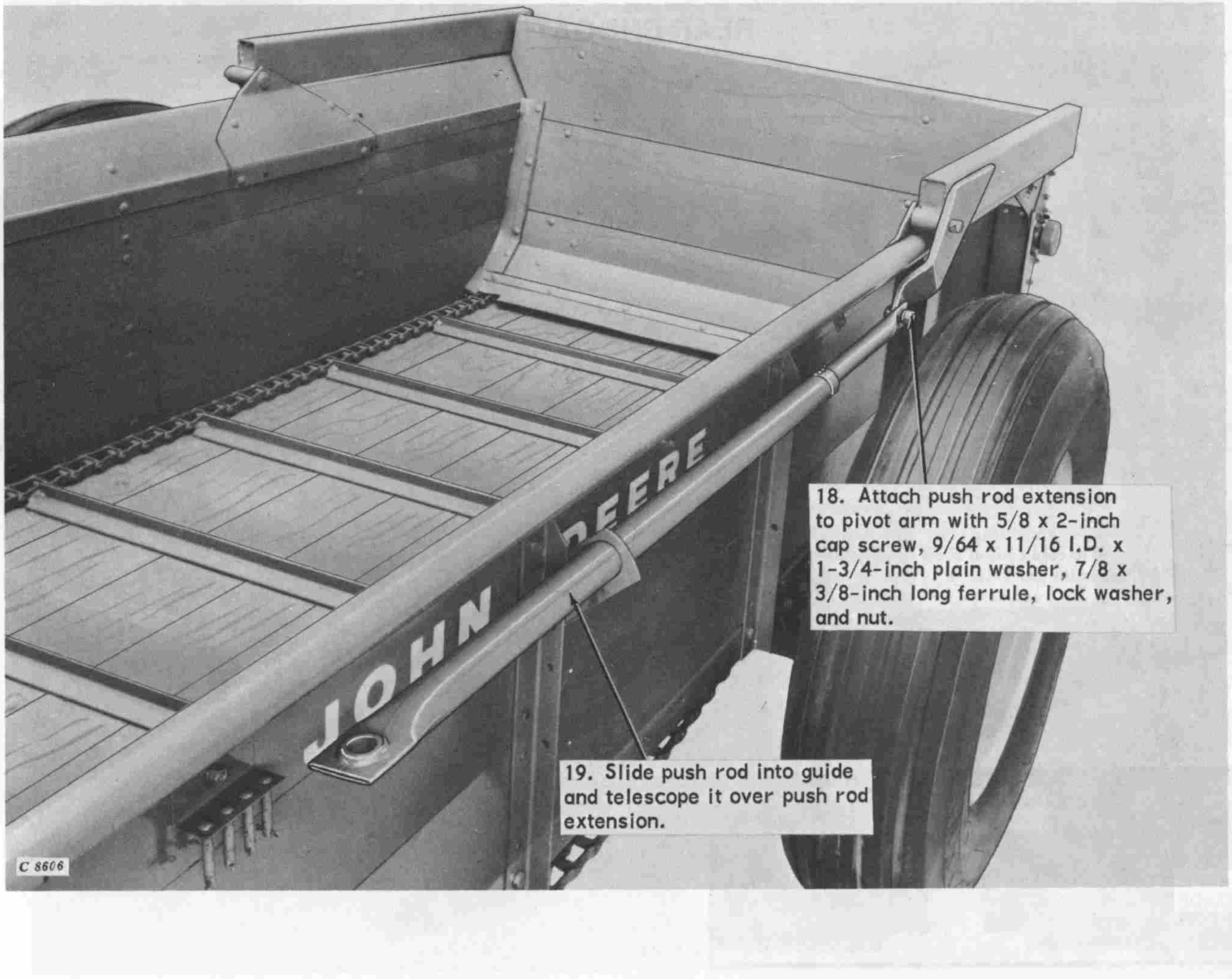
C 8603


16. Locate and secure collar with 3/8 x 2-3/8-inch shear pin and cotter pin in hole of push rod extension.

C 8604


17. Attach push rod bracket with two 3/8 x 1-inch cap screws.

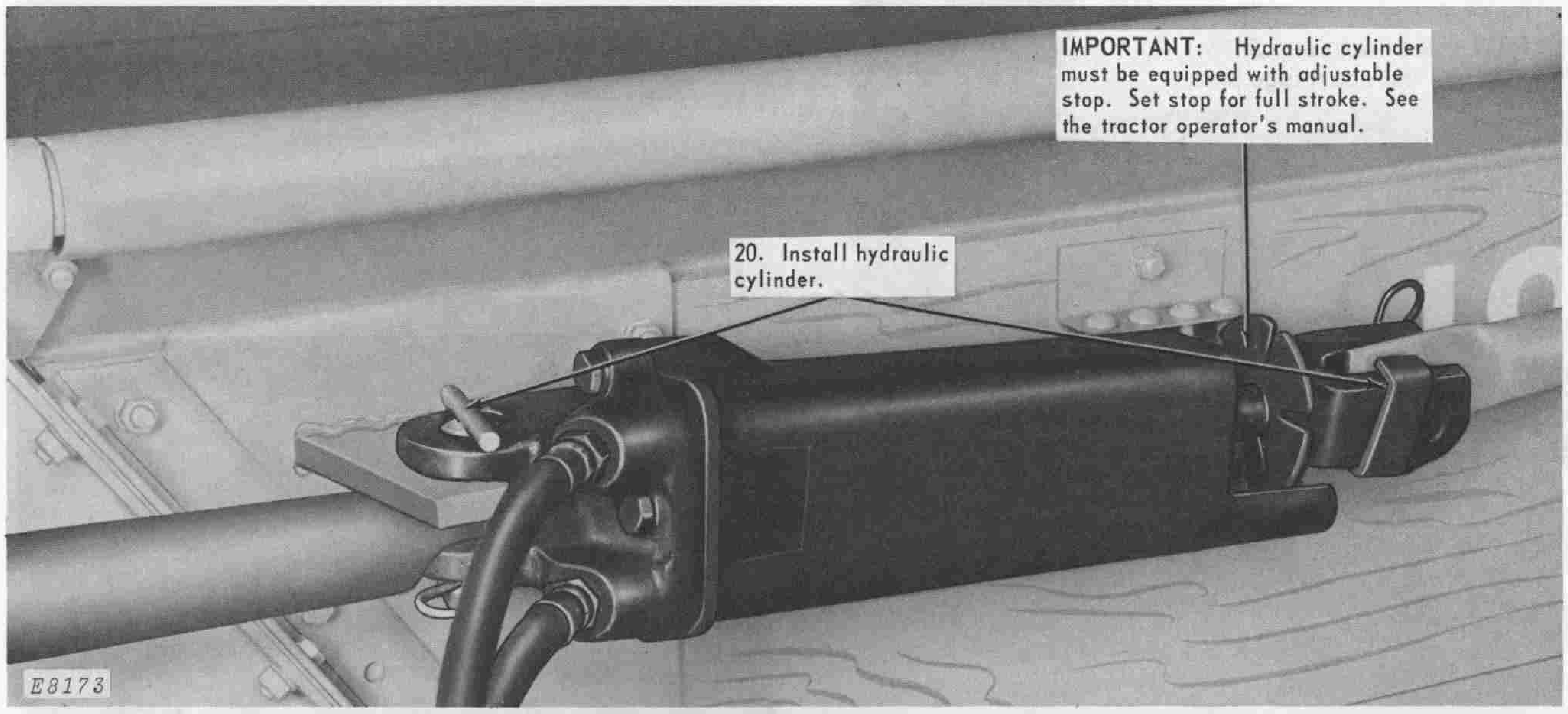
C 8605


18. Attach push rod extension to pivot arm with 5/8 x 2-inch cap screw, 9/64 x 11/16 I.D. x 1-3/4-inch plain washer, 7/8 x 3/8-inch long ferrule, lock washer, and nut.

19. Slide push rod into guide and telescope it over push rod extension.

C 8606

POWER-SEAL ENDGATE—Continued

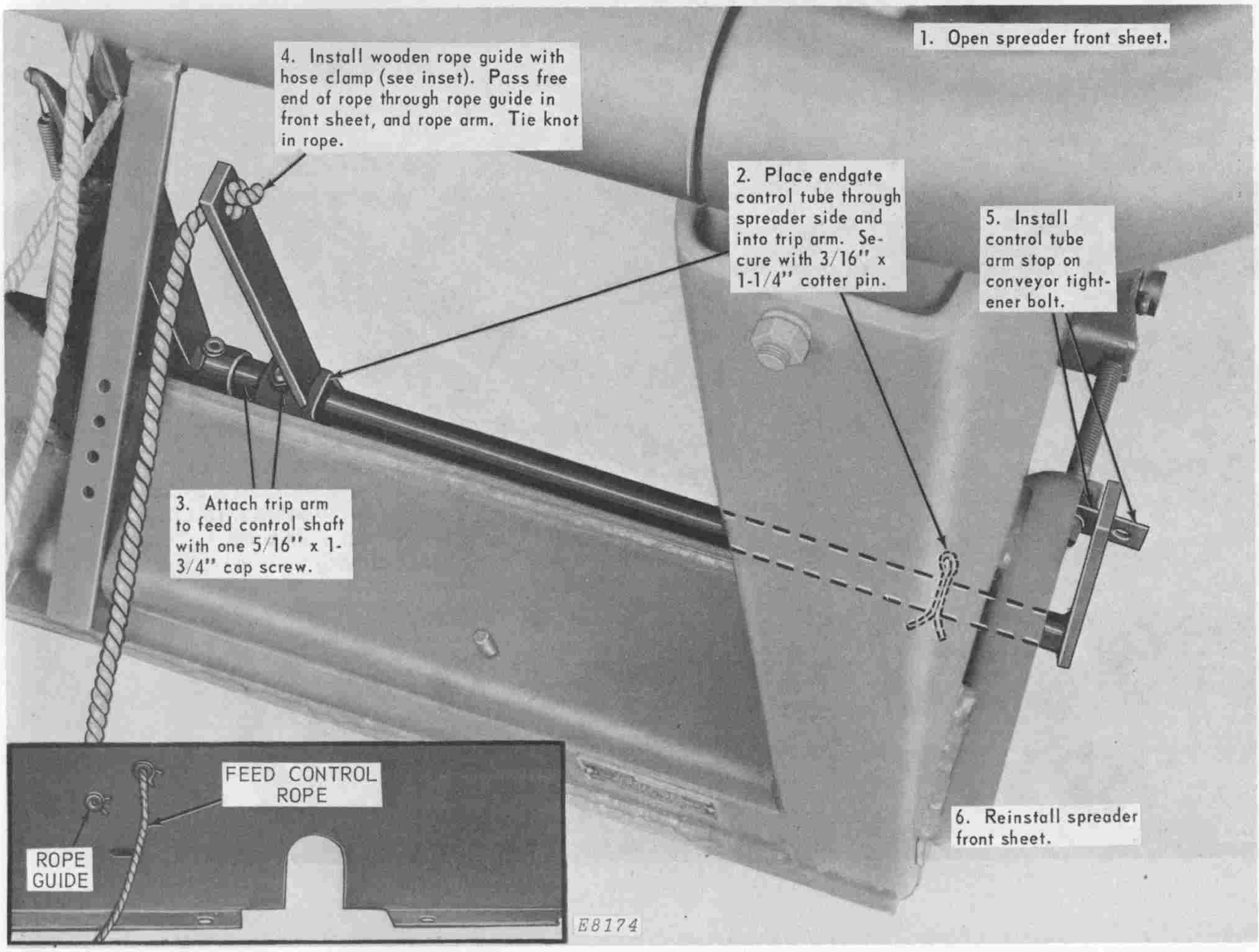


IMPORTANT: Hydraulic cylinder must be equipped with adjustable stop. Set stop for full stroke. See the tractor operator's manual.

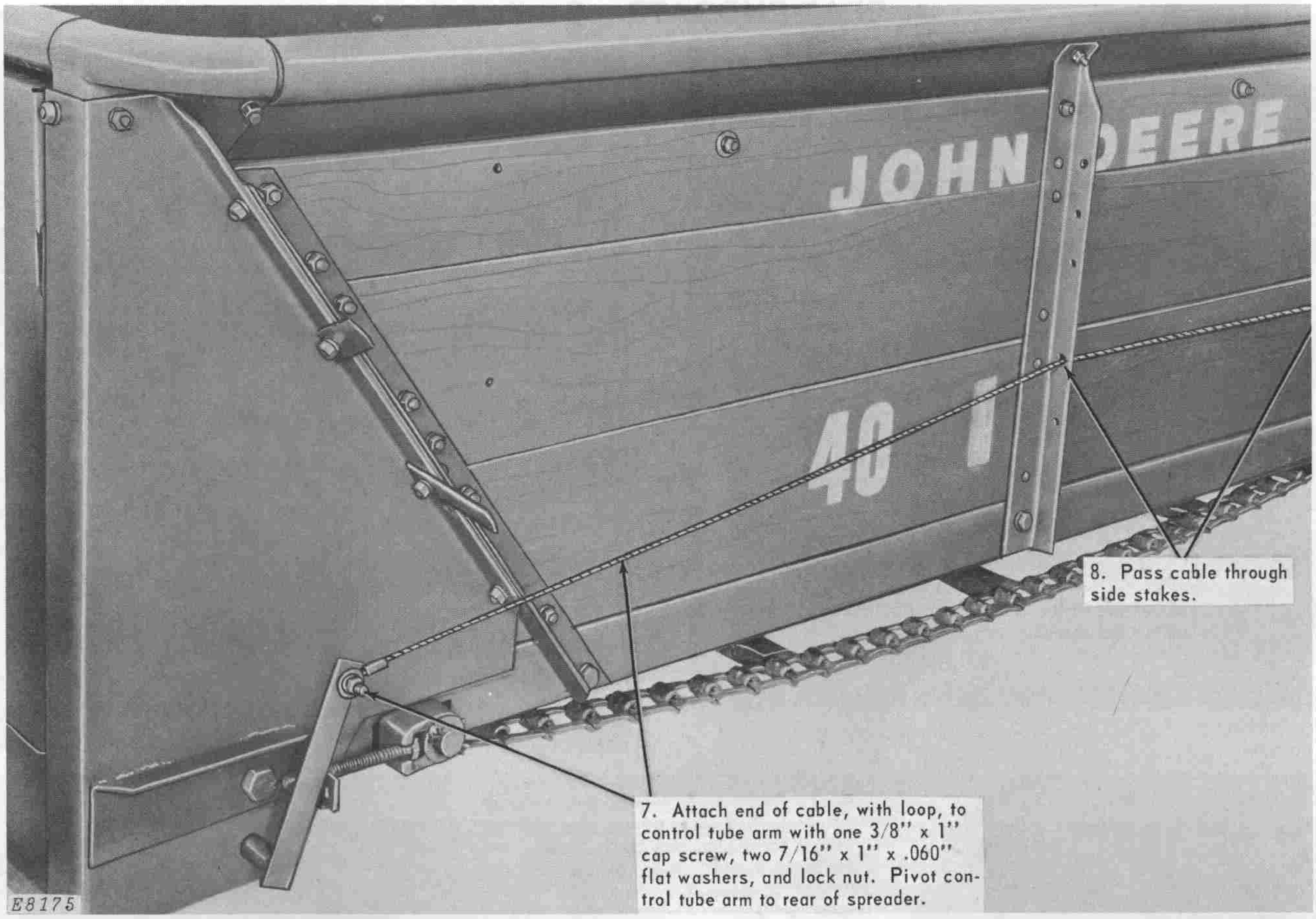
20. Install hydraulic cylinder.

CAUTION: Escaping hydraulic oil under pressure can cause personal injury; therefore, be sure all connections are tight and that lines, pipes, and hoses are not damaged. Before disconnecting lines or pipes in the tractor hydraulic system, be sure to relieve all hydraulic pressure.

REAR ENDGATE



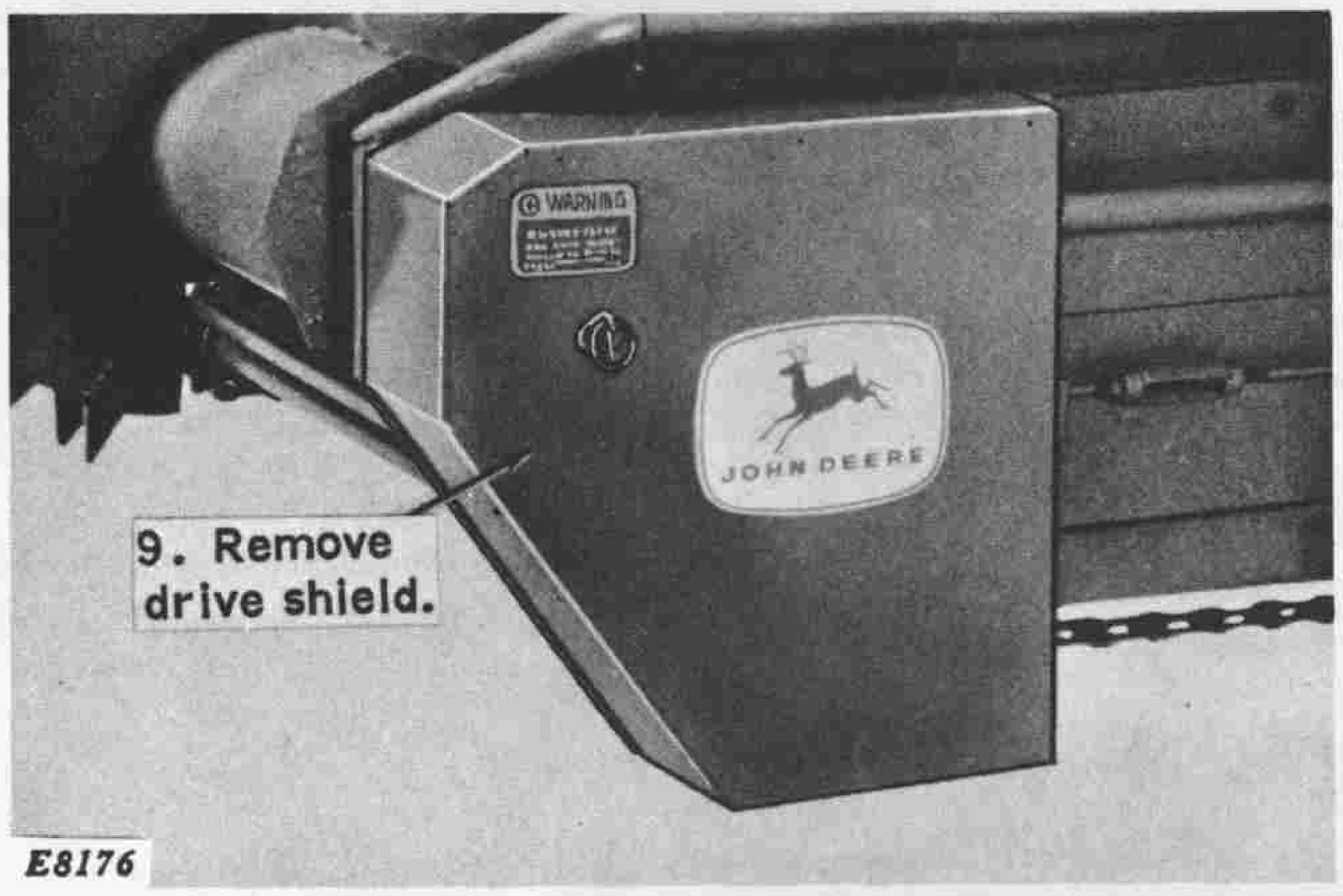
1. Open spreader front sheet.
2. Place endgate control tube through spreader side and into trip arm. Secure with 3/16" x 1-1/4" cotter pin.
3. Attach trip arm to feed control shaft with one 5/16" x 1-3/4" cap screw.
4. Install wooden rope guide with hose clamp (see inset). Pass free end of rope through rope guide in front sheet, and rope arm. Tie knot in rope.
5. Install control tube arm stop on conveyor tightener bolt.
6. Reinstall spreader front sheet.



8. Pass cable through side stakes.

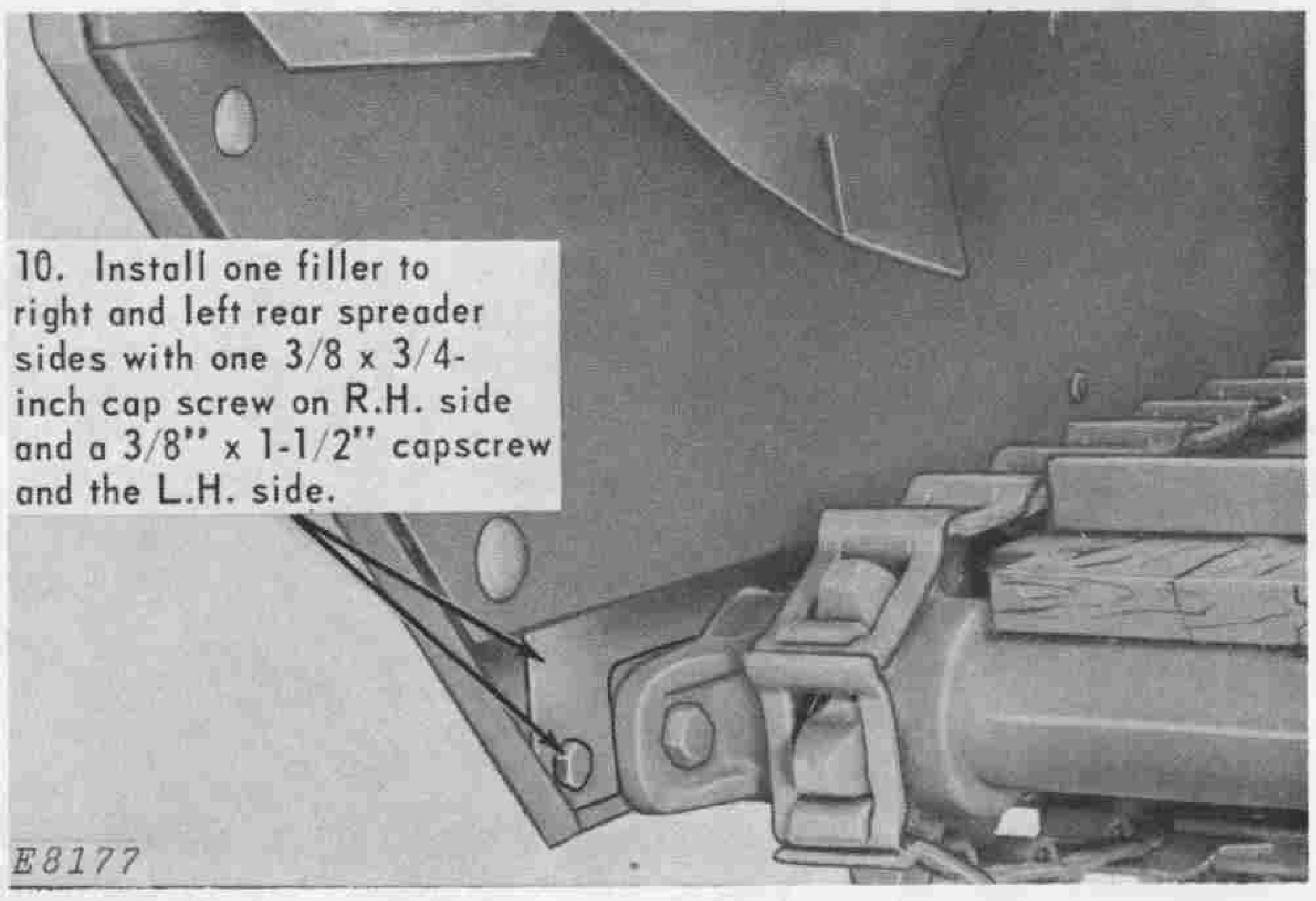
7. Attach end of cable, with loop, to control tube arm with one 3/8" x 1" cap screw, two 7/16" x 1" x .060" flat washers, and lock nut. Pivot control tube arm to rear of spreader.

E8175



9. Remove drive shield.

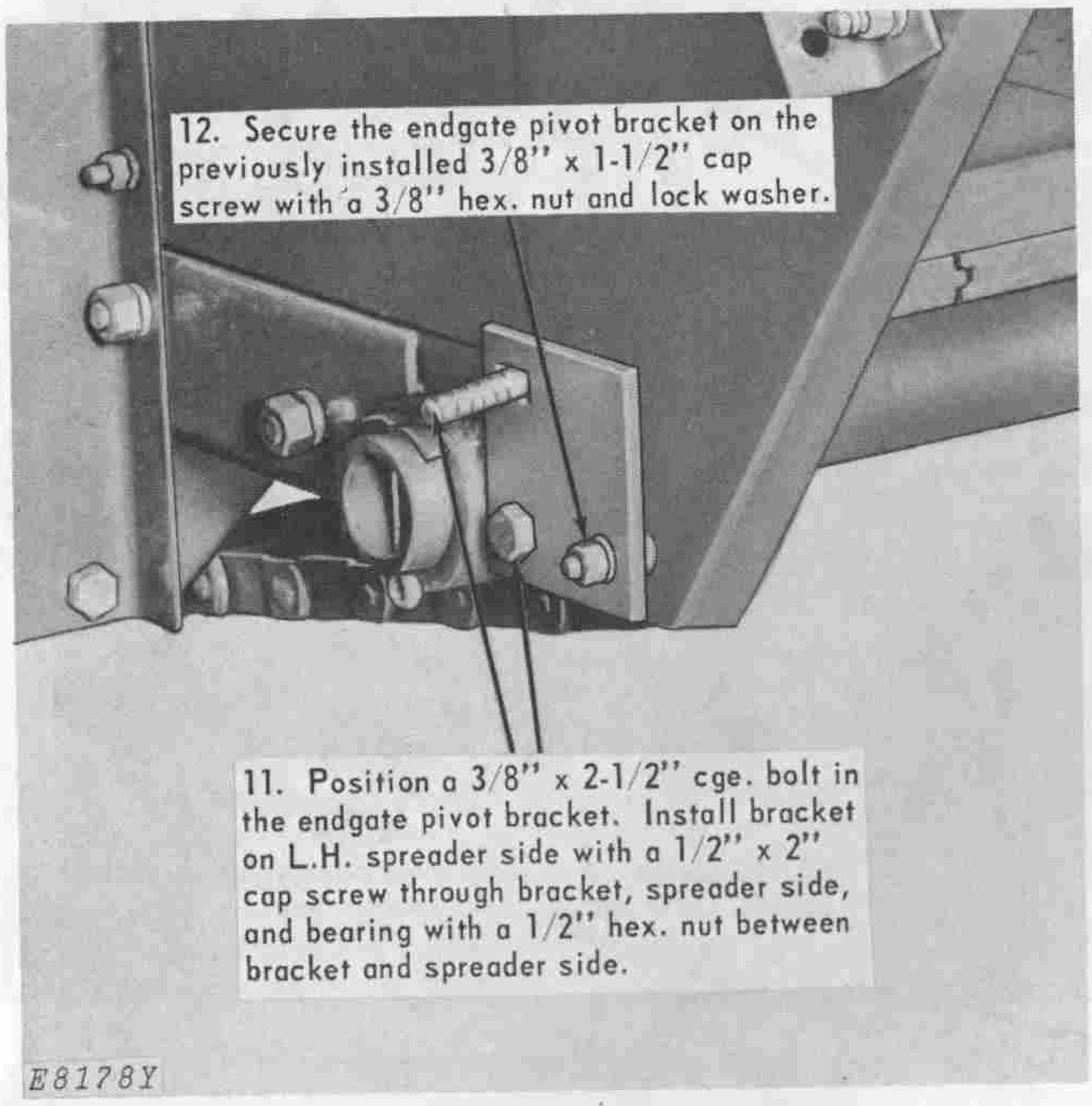
E8176



10. Install one filler to right and left rear spreader sides with one 3/8 x 3/4-inch cap screw on R.H. side and a 3/8" x 1-1/2" capscrew and the L.H. side.

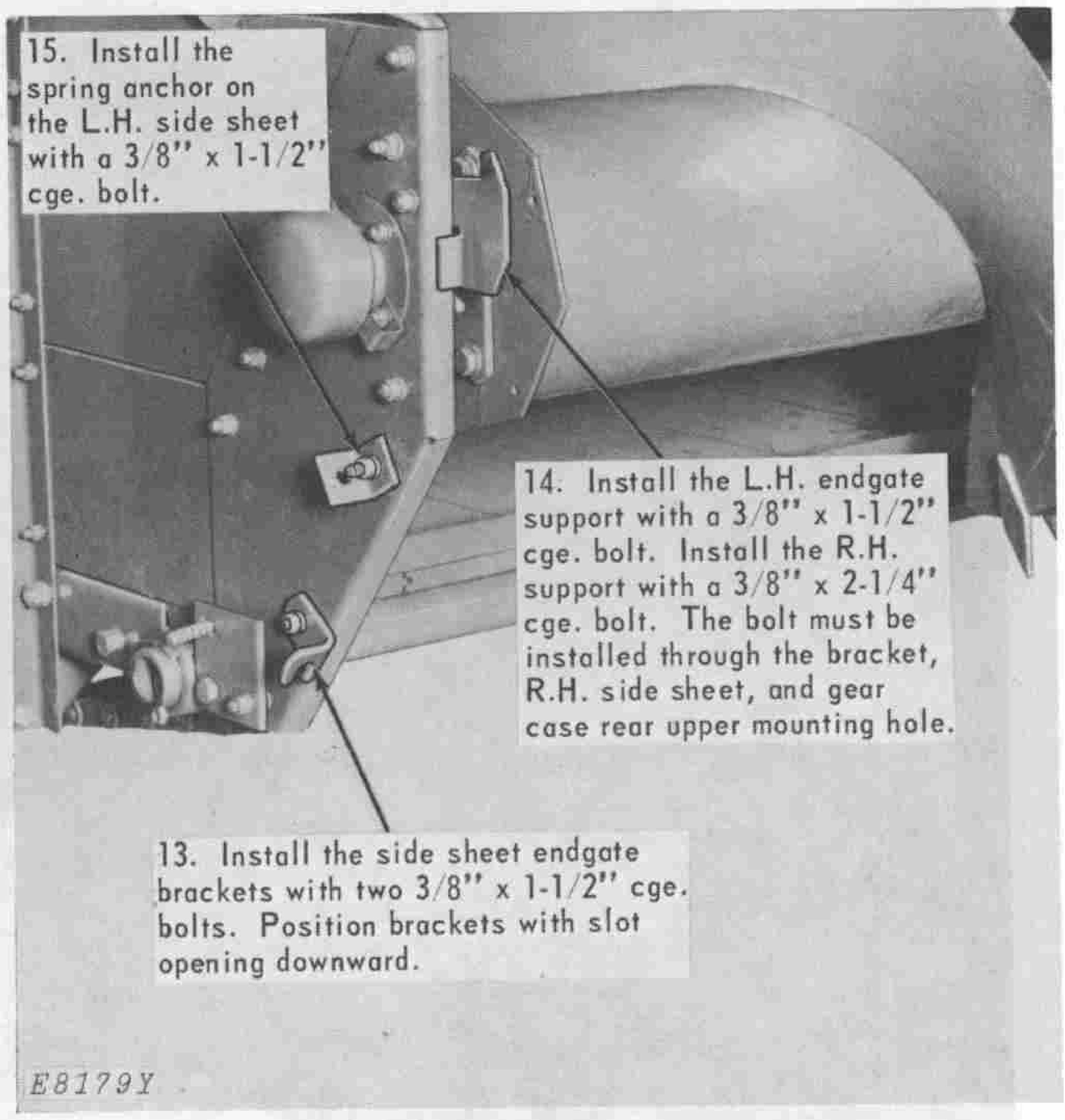
E8177

REAR ENDGATE—Continued



11. Position a 3/8" x 2-1/2" cge. bolt in the endgate pivot bracket. Install bracket on L.H. spreader side with a 1/2" x 2" cap screw through bracket, spreader side, and bearing with a 1/2" hex. nut between bracket and spreader side.

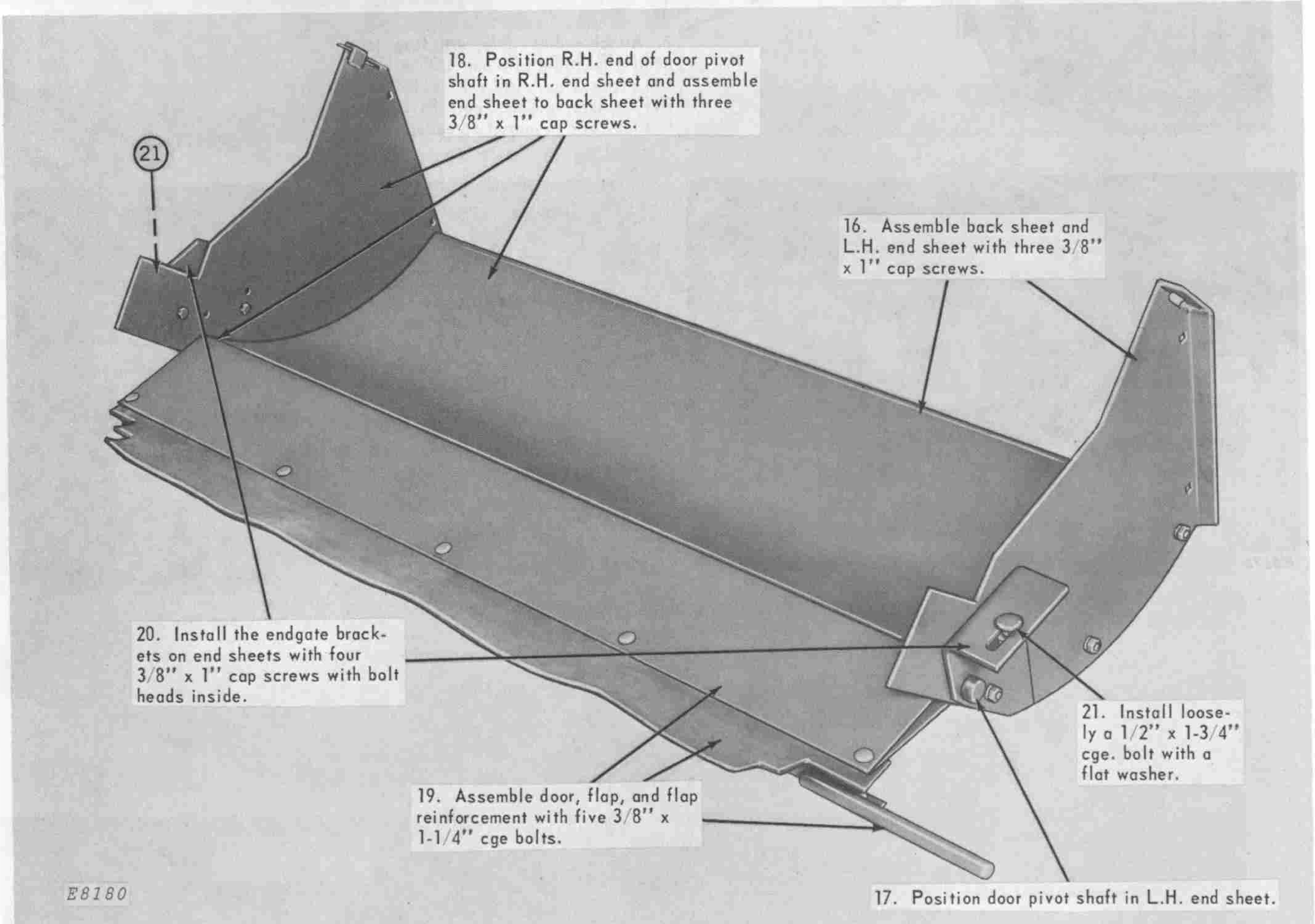
12. Secure the endgate pivot bracket on the previously installed 3/8" x 1-1/2" cap screw with a 3/8" hex. nut and lock washer.



13. Install the side sheet endgate brackets with two 3/8" x 1-1/2" cge. bolts. Position brackets with slot opening downward.

14. Install the L.H. endgate support with a 3/8" x 1-1/2" cge. bolt. Install the R.H. support with a 3/8" x 2-1/4" cge. bolt. The bolt must be installed through the bracket, R.H. side sheet, and gear case rear upper mounting hole.

15. Install the spring anchor on the L.H. side sheet with a 3/8" x 1-1/2" cge. bolt.



16. Assemble back sheet and L.H. end sheet with three 3/8" x 1" cap screws.

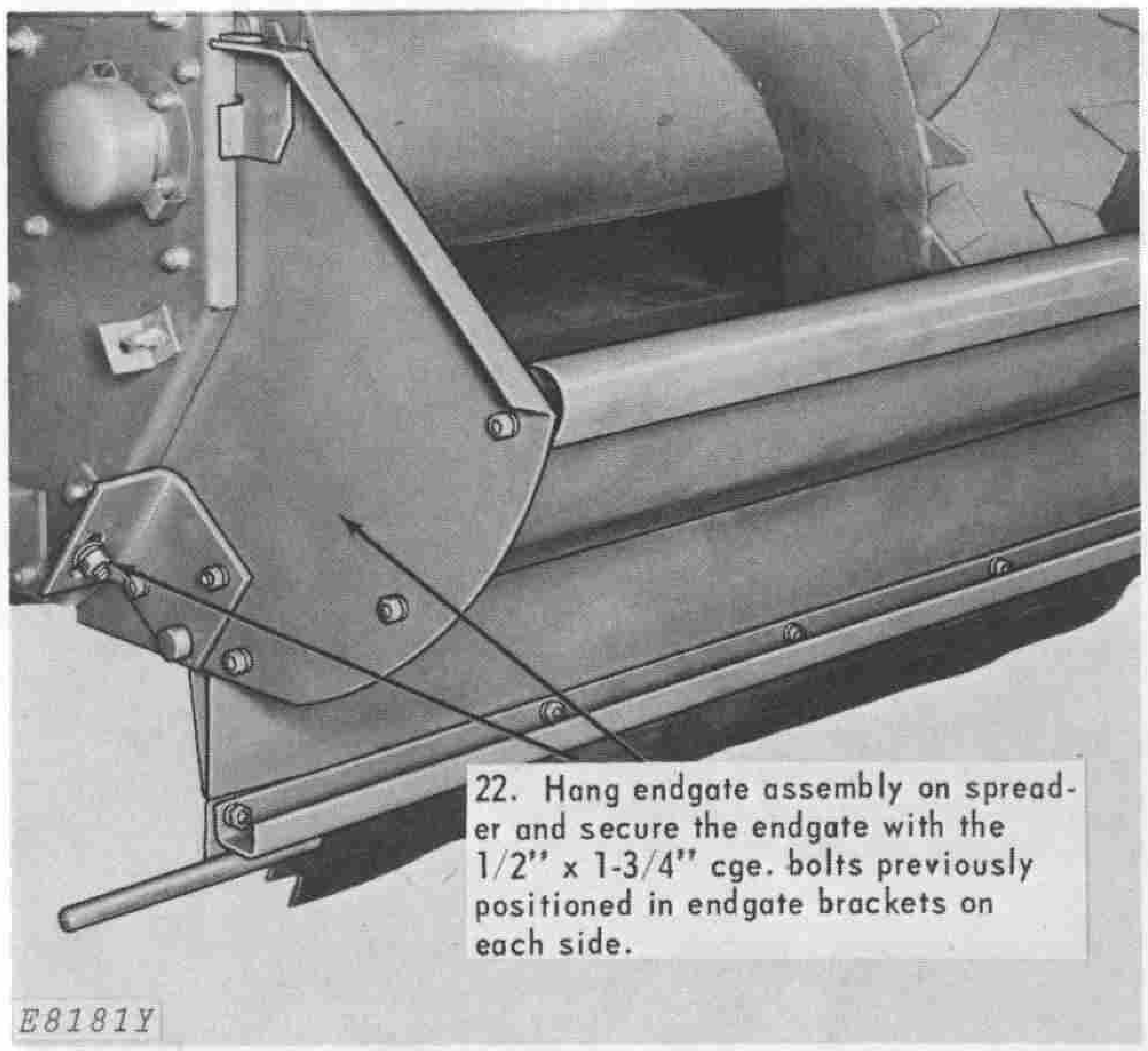
17. Position door pivot shaft in L.H. end sheet.

18. Position R.H. end of door pivot shaft in R.H. end sheet and assemble end sheet to back sheet with three 3/8" x 1" cap screws.

19. Assemble door, flap, and flap reinforcement with five 3/8" x 1-1/4" cge bolts.

20. Install the endgate brackets on end sheets with four 3/8" x 1" cap screws with bolt heads inside.

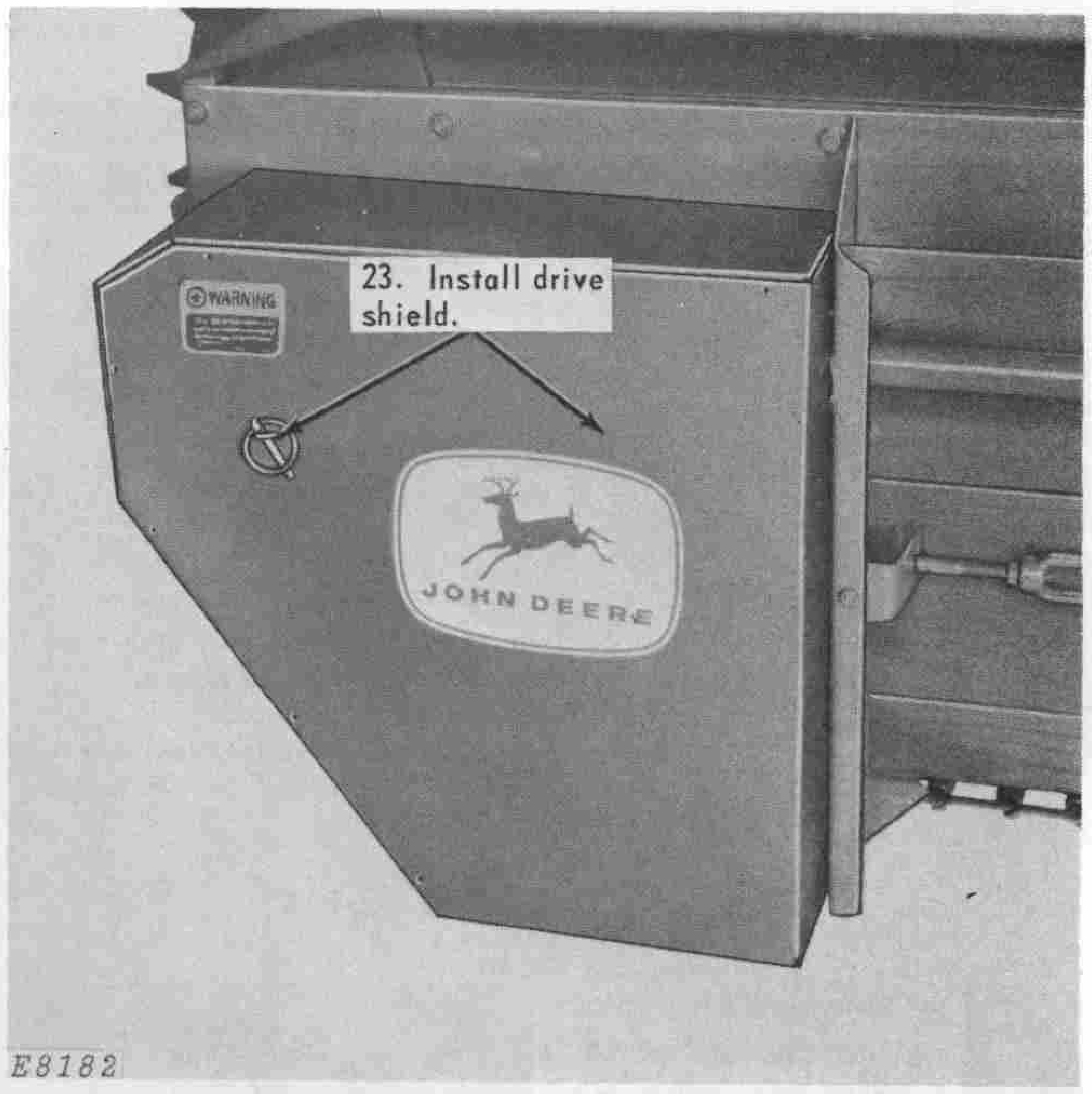
21. Install loosely a 1/2" x 1-3/4" cge. bolt with a flat washer.



22. Hang endgate assembly on spreader and secure the endgate with the 1/2" x 1-3/4" cge. bolts previously positioned in endgate brackets on each side.

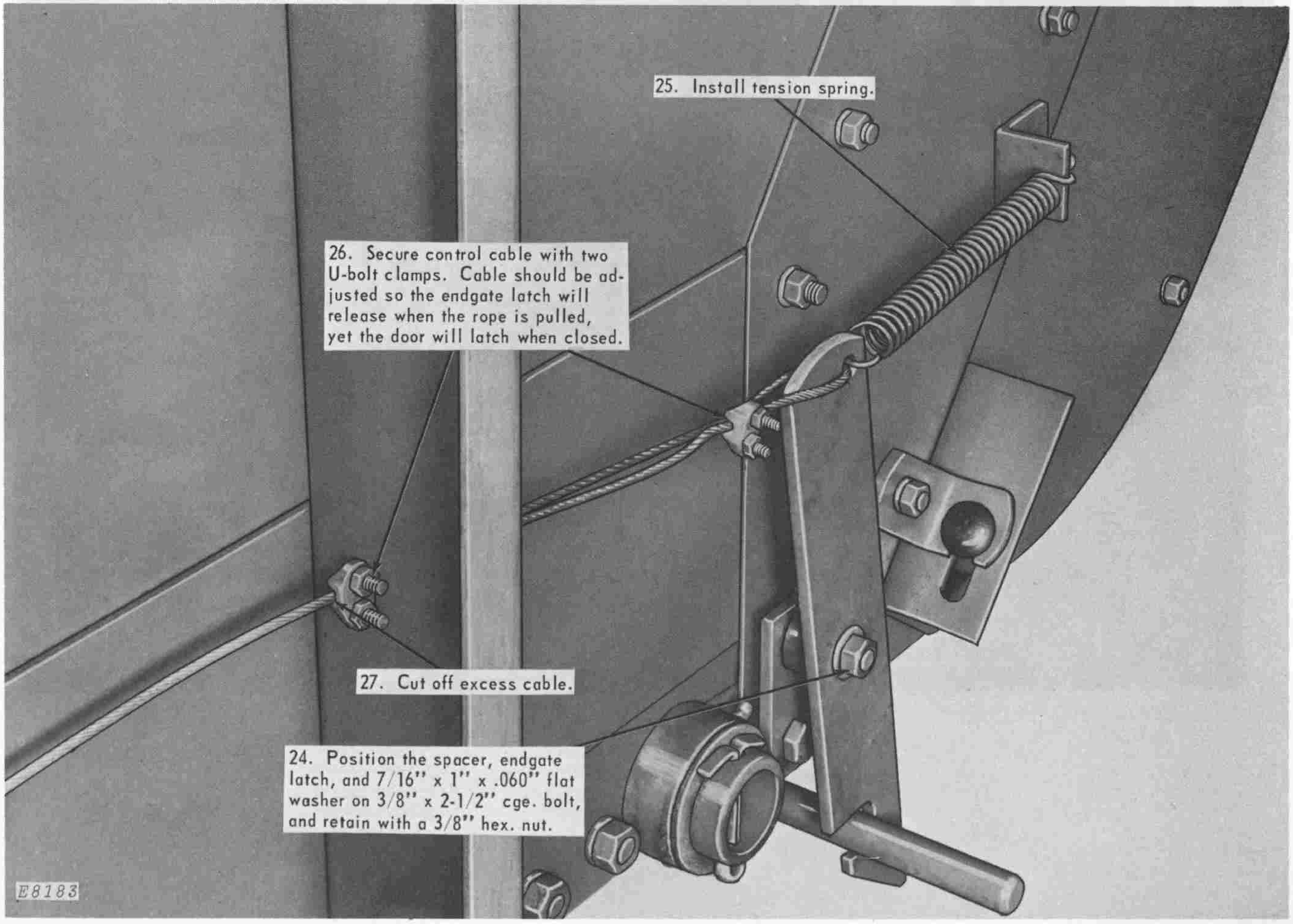
E8181Y

NOTE: When removing the endgate, merely open the cleanout door, loosen the bolts in the lower endgate brackets, and lift the endgate from the spreader; leave the bolts in place for the next time the endgate is installed.



23. Install drive shield.

E8182



25. Install tension spring.

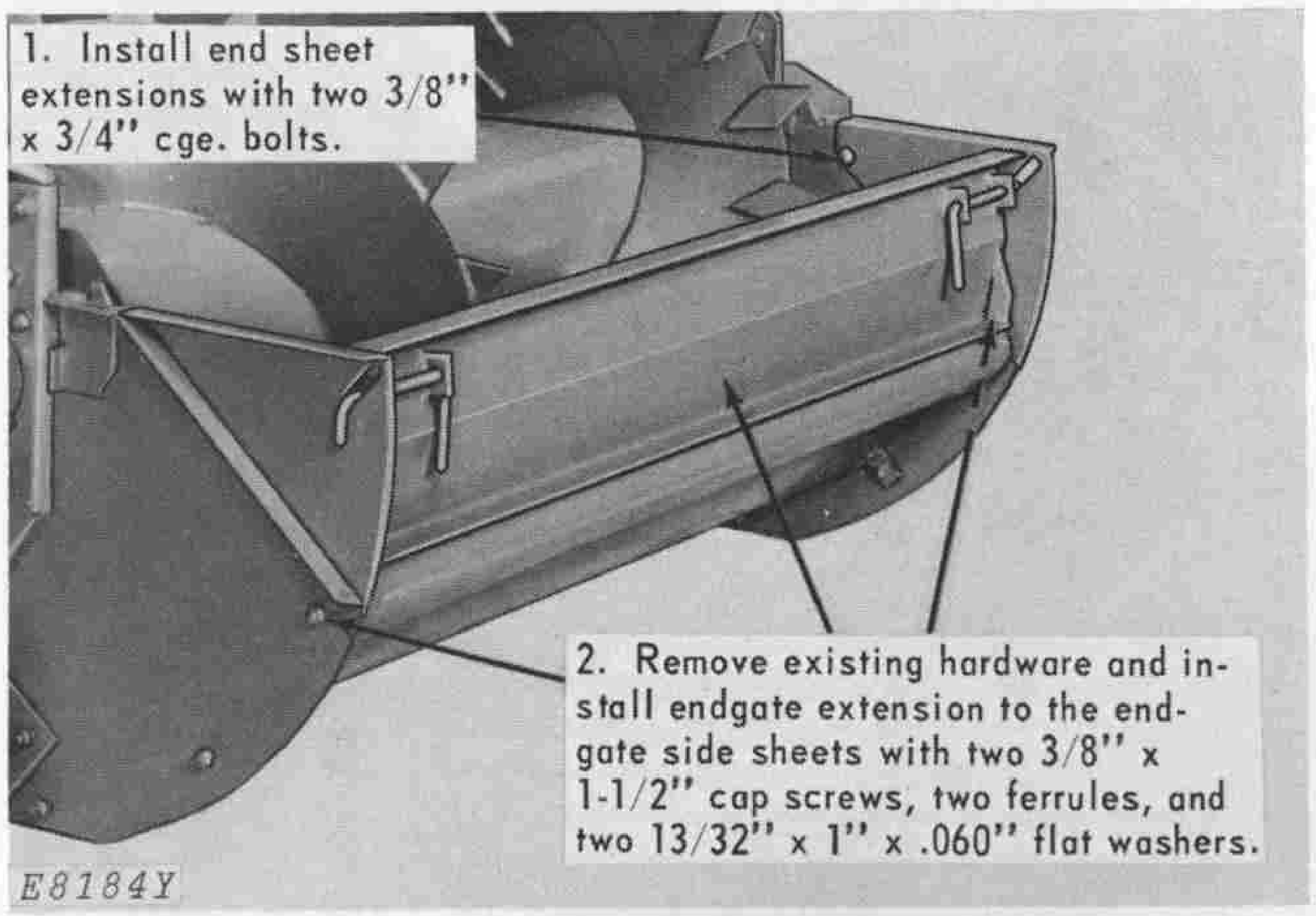
26. Secure control cable with two U-bolt clamps. Cable should be adjusted so the endgate latch will release when the rope is pulled, yet the door will latch when closed.

27. Cut off excess cable.

24. Position the spacer, endgate latch, and 7/16" x 1" x .060" flat washer on 3/8" x 2-1/2" cge. bolt, and retain with a 3/8" hex. nut.

E8183

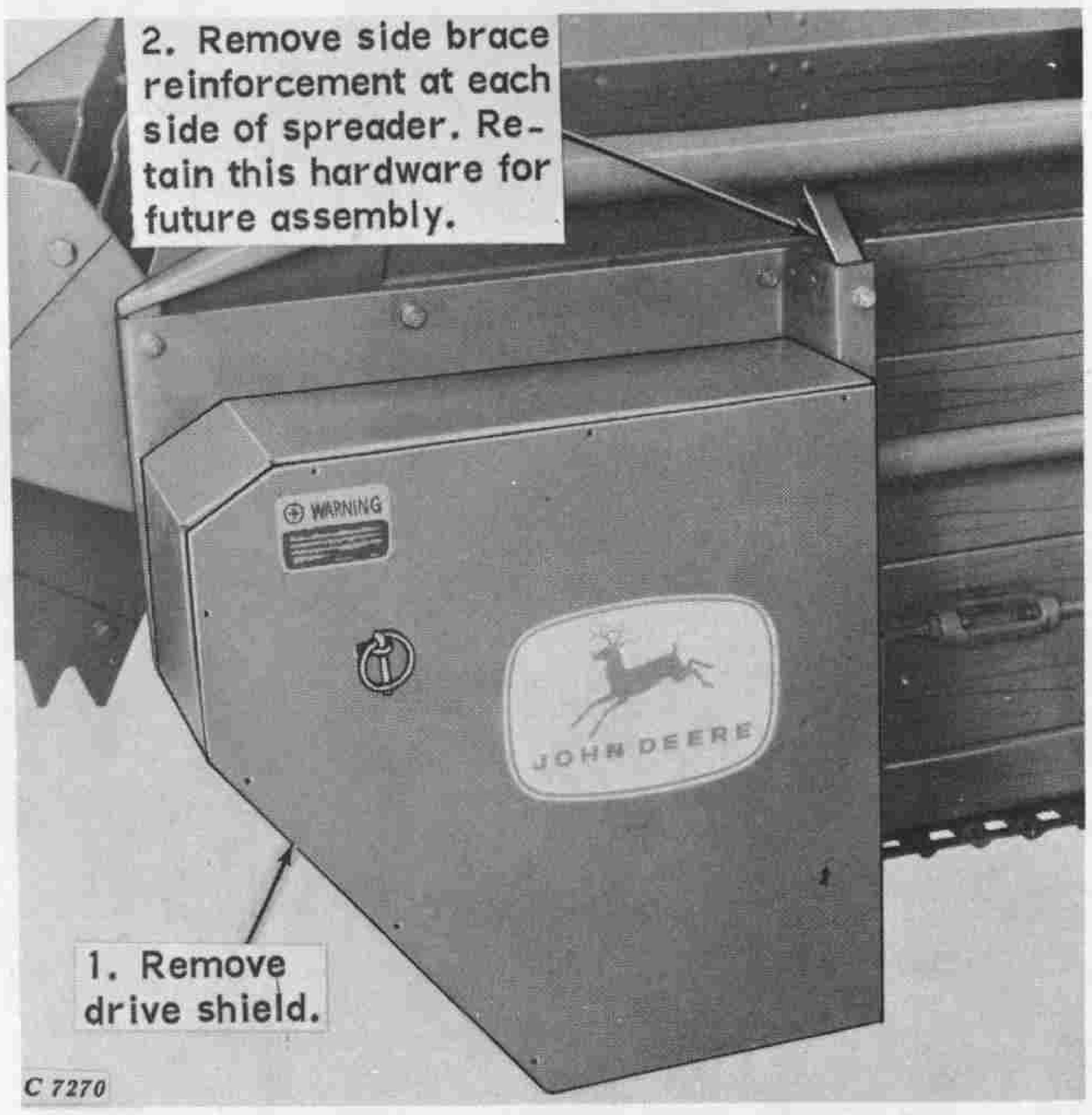
REAR ENDGATE EXTENSION



1. Install end sheet extensions with two 3/8" x 3/4" cge. bolts.

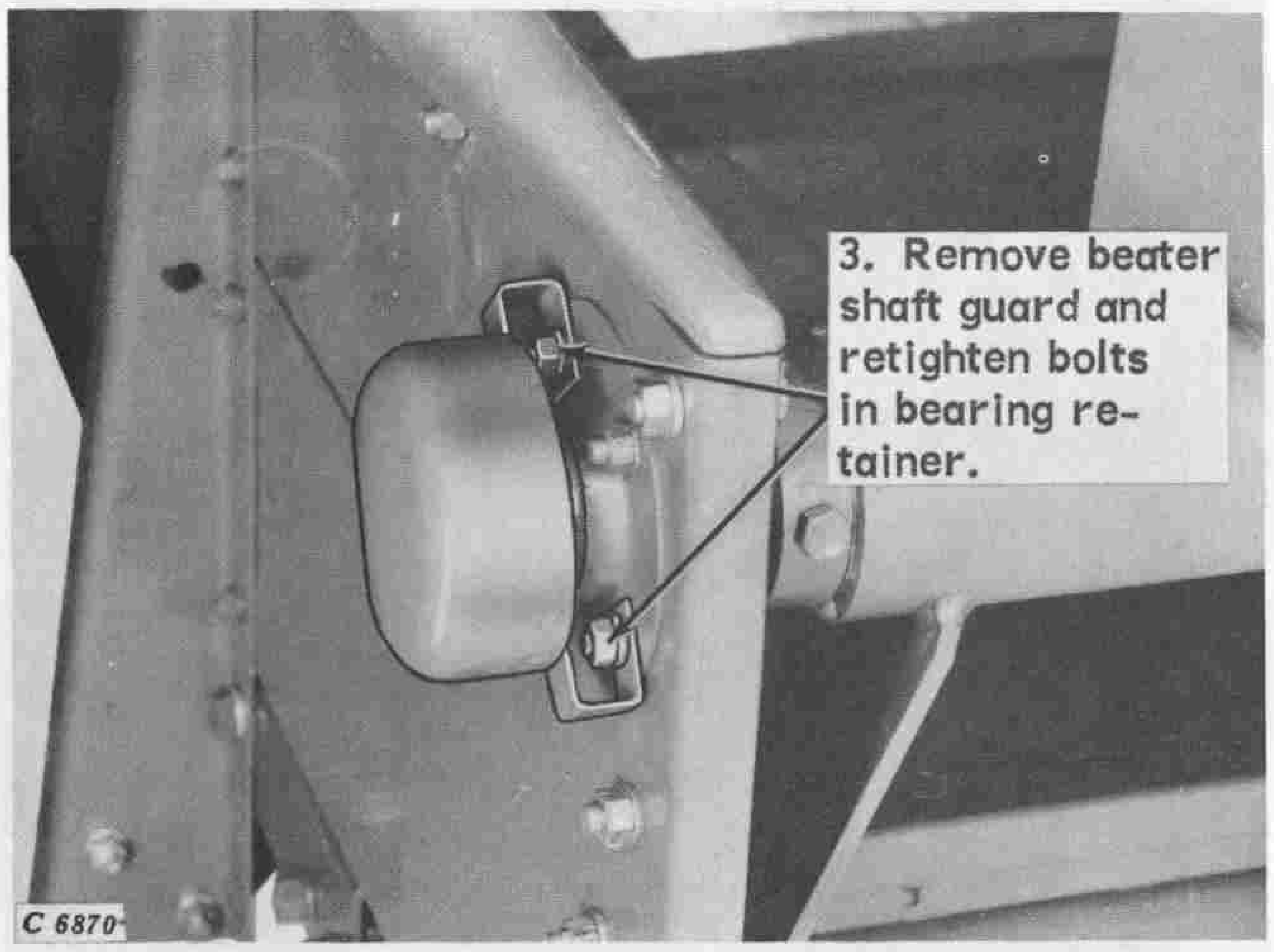
2. Remove existing hardware and install endgate extension to the endgate side sheets with two 3/8" x 1-1/2" cap screws, two ferrules, and two 13/32" x 1" x .060" flat washers.

UPPER BEATER

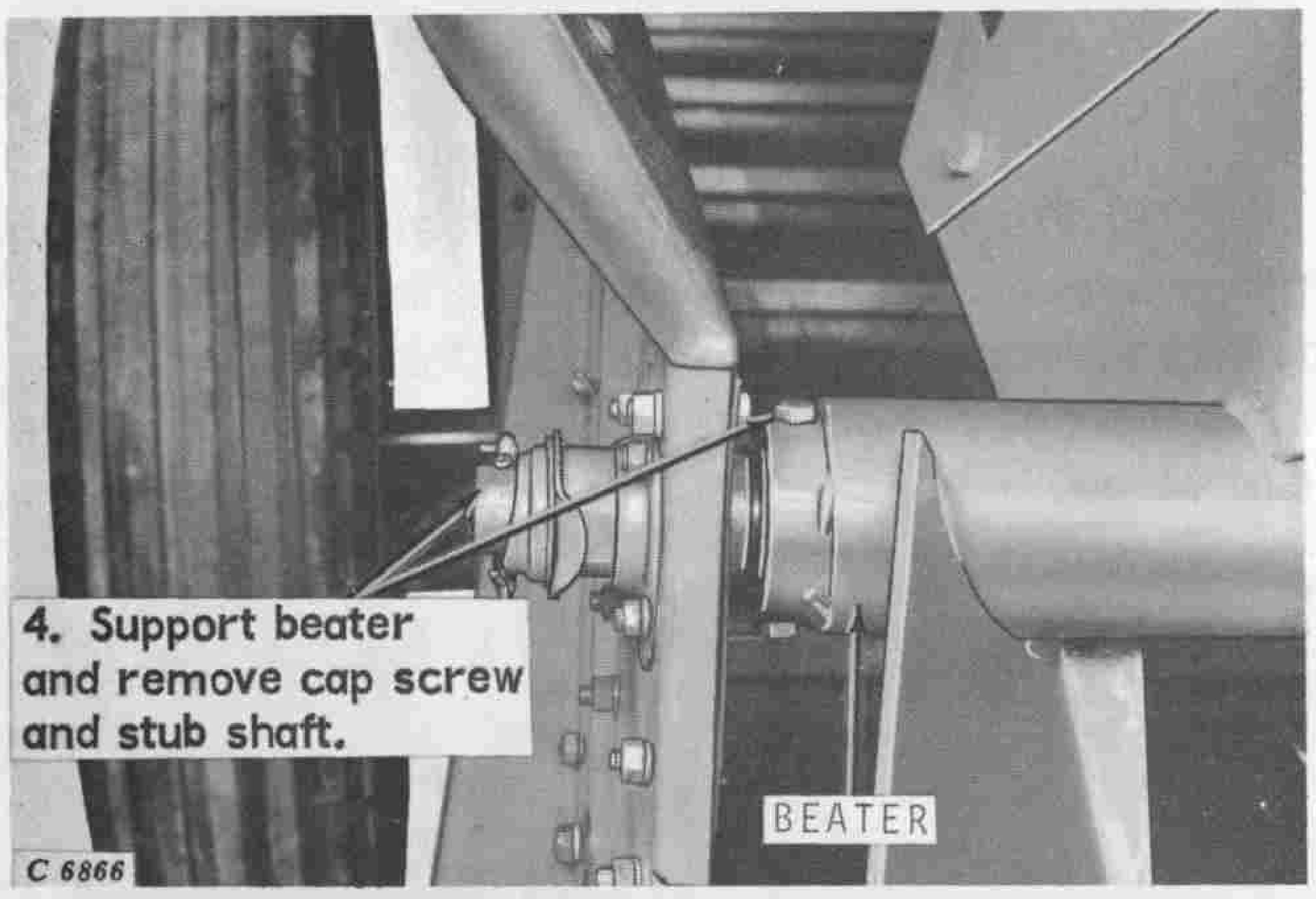


1. Remove drive shield.

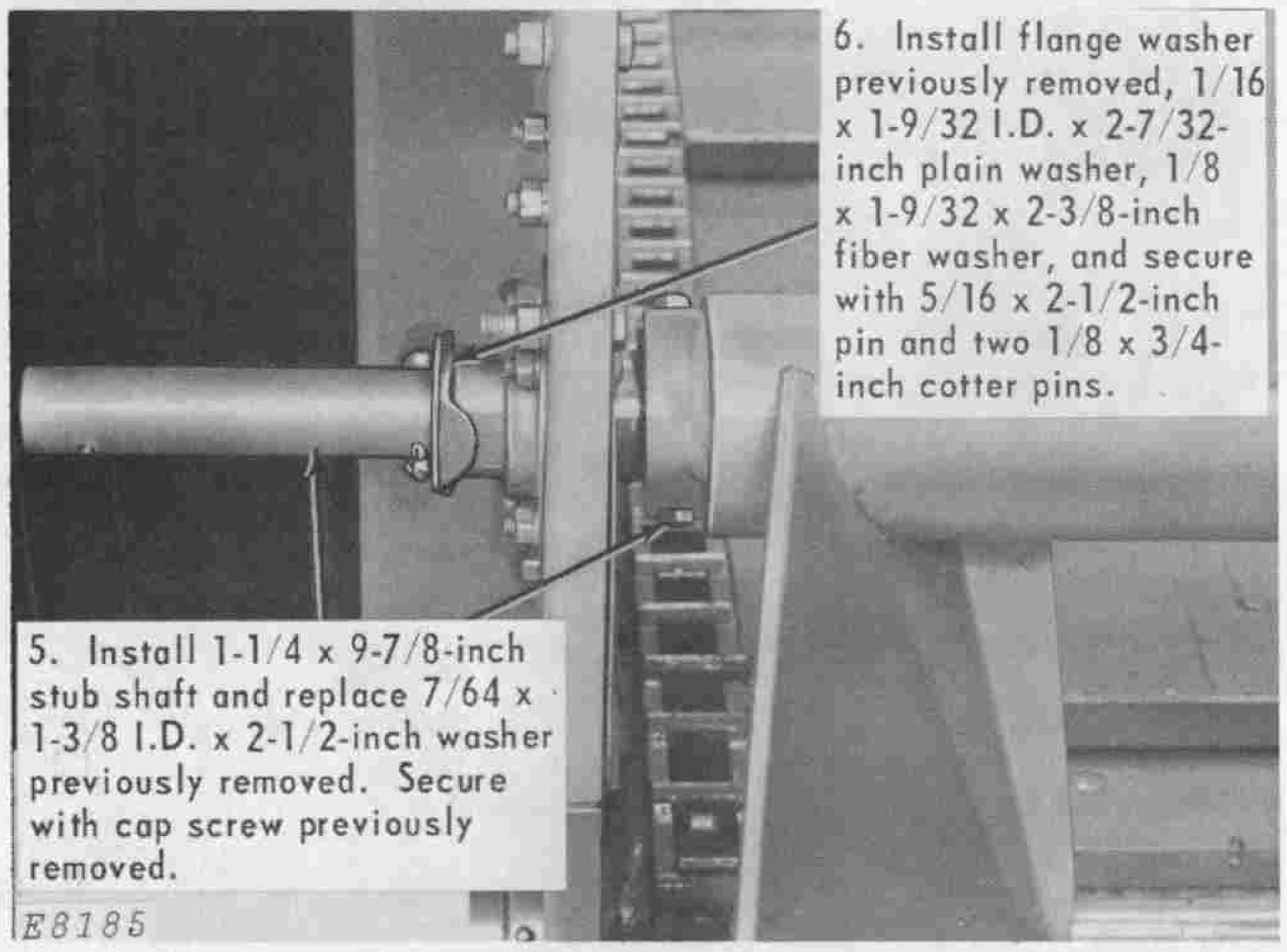
2. Remove side brace reinforcement at each side of spreader. Retain this hardware for future assembly.



3. Remove beater shaft guard and retighten bolts in bearing retainer.

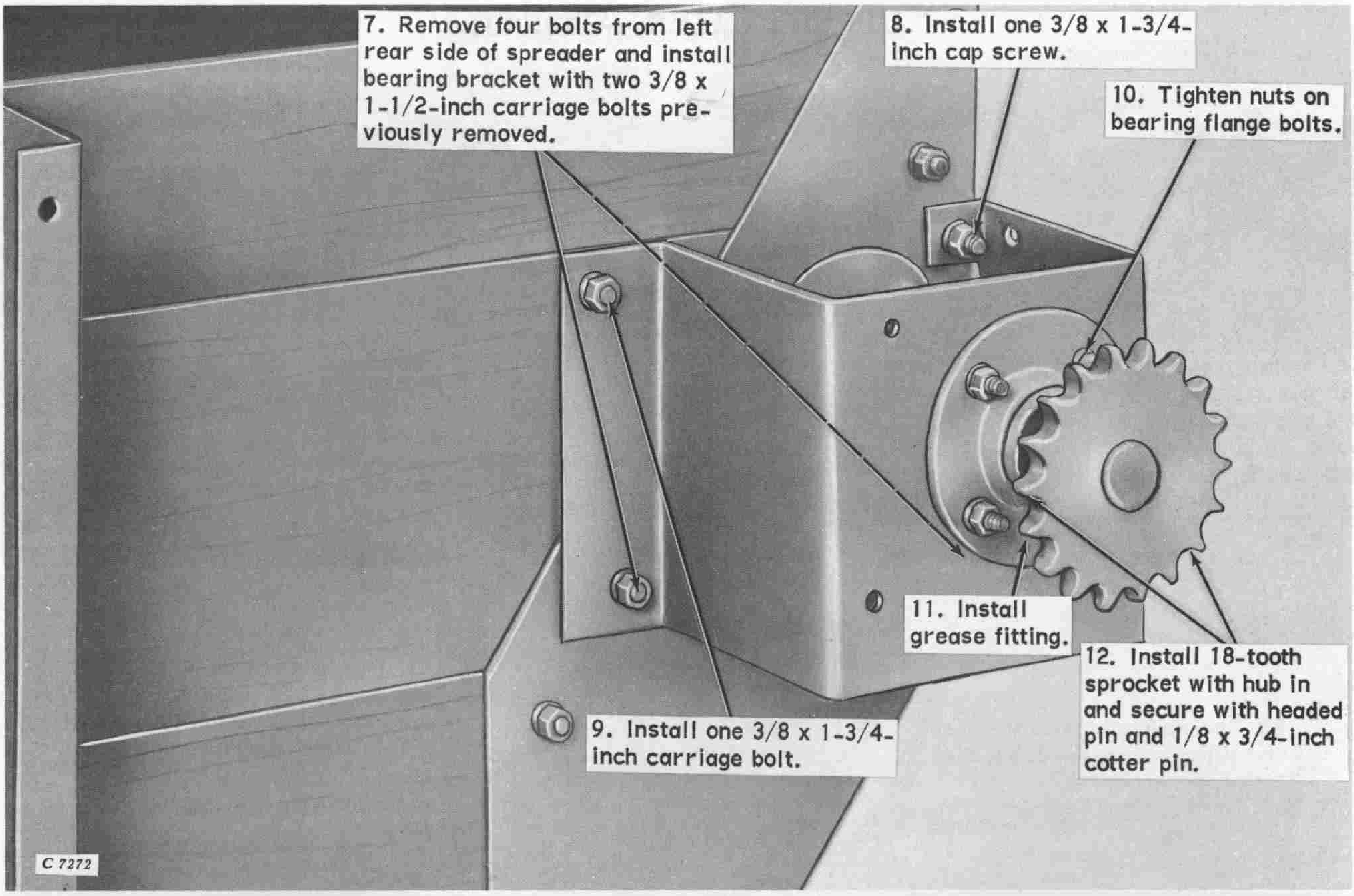


4. Support beater and remove cap screw and stub shaft.



5. Install 1-1/4 x 9-7/8-inch stub shaft and replace 7/64 x 1-3/8 I.D. x 2-1/2-inch washer previously removed. Secure with cap screw previously removed.

6. Install flange washer previously removed, 1/16 x 1-9/32 I.D. x 2-7/32-inch plain washer, 1/8 x 1-9/32 x 2-3/8-inch fiber washer, and secure with 5/16 x 2-1/2-inch pin and two 1/8 x 3/4-inch cotter pins.



7. Remove four bolts from left rear side of spreader and install bearing bracket with two 3/8 x 1-1/2-inch carriage bolts previously removed.

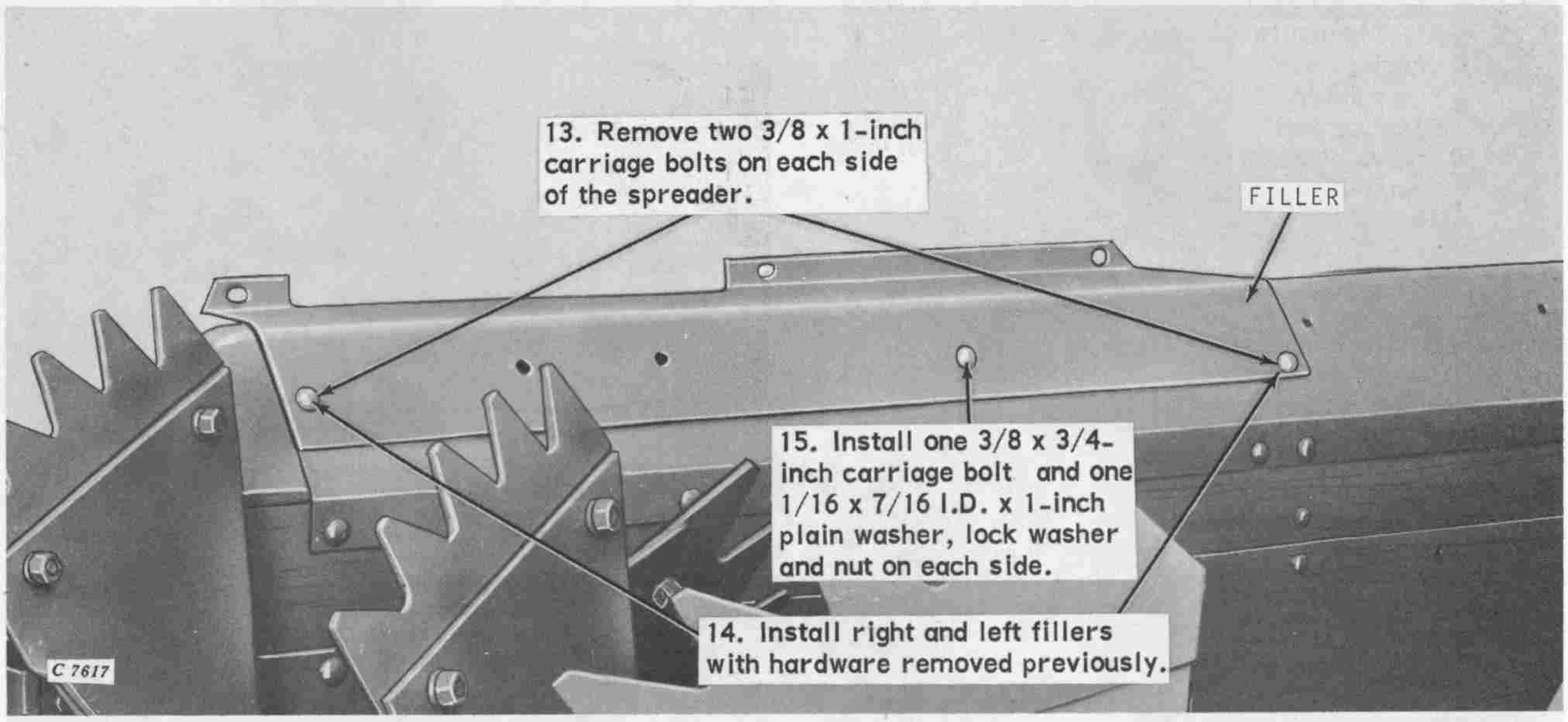
8. Install one 3/8 x 1-3/4-inch cap screw.

10. Tighten nuts on bearing flange bolts.

11. Install grease fitting.

12. Install 18-tooth sprocket with hub in and secure with headed pin and 1/8 x 3/4-inch cotter pin.

9. Install one 3/8 x 1-3/4-inch carriage bolt.

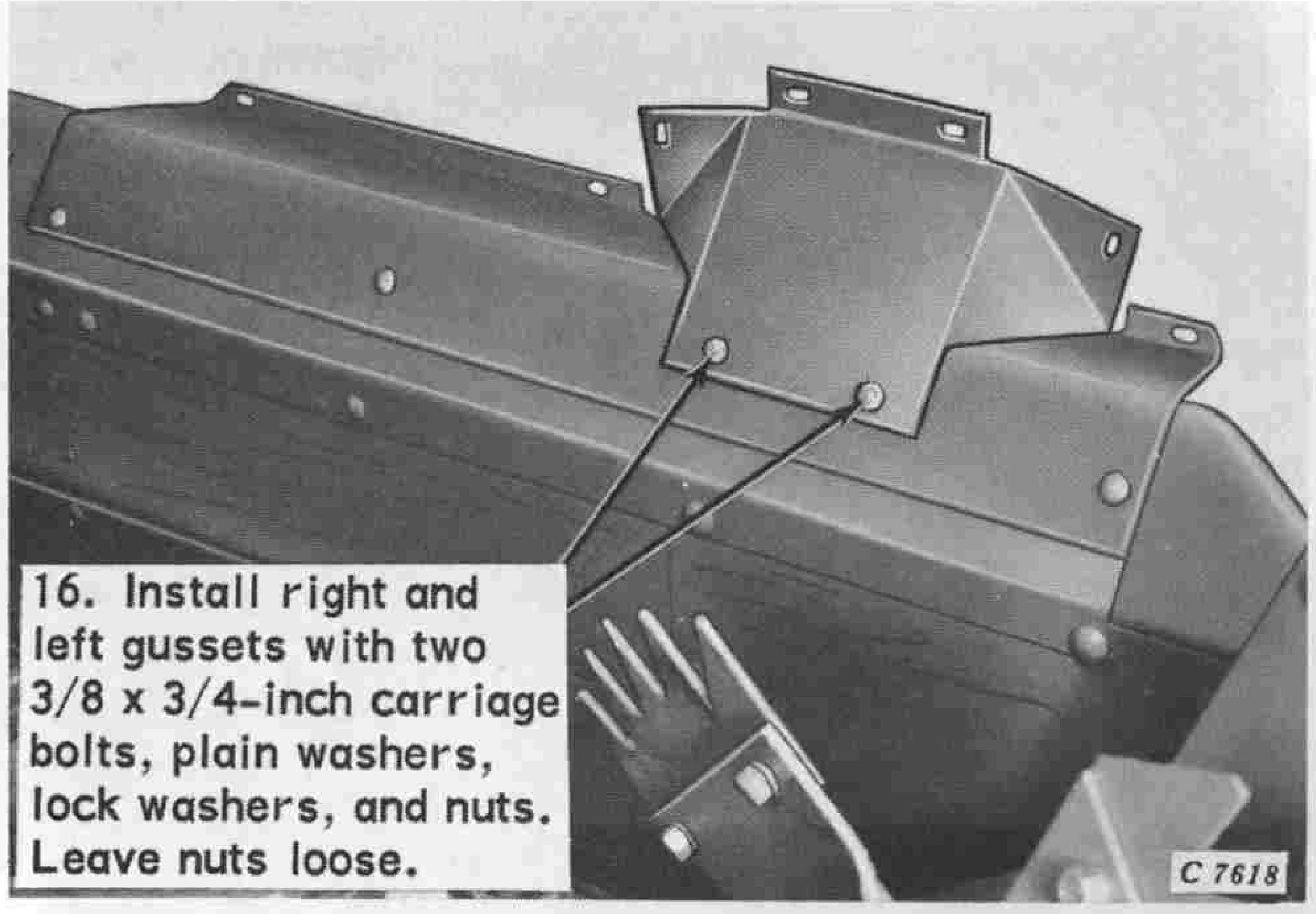


13. Remove two 3/8 x 1-inch carriage bolts on each side of the spreader.

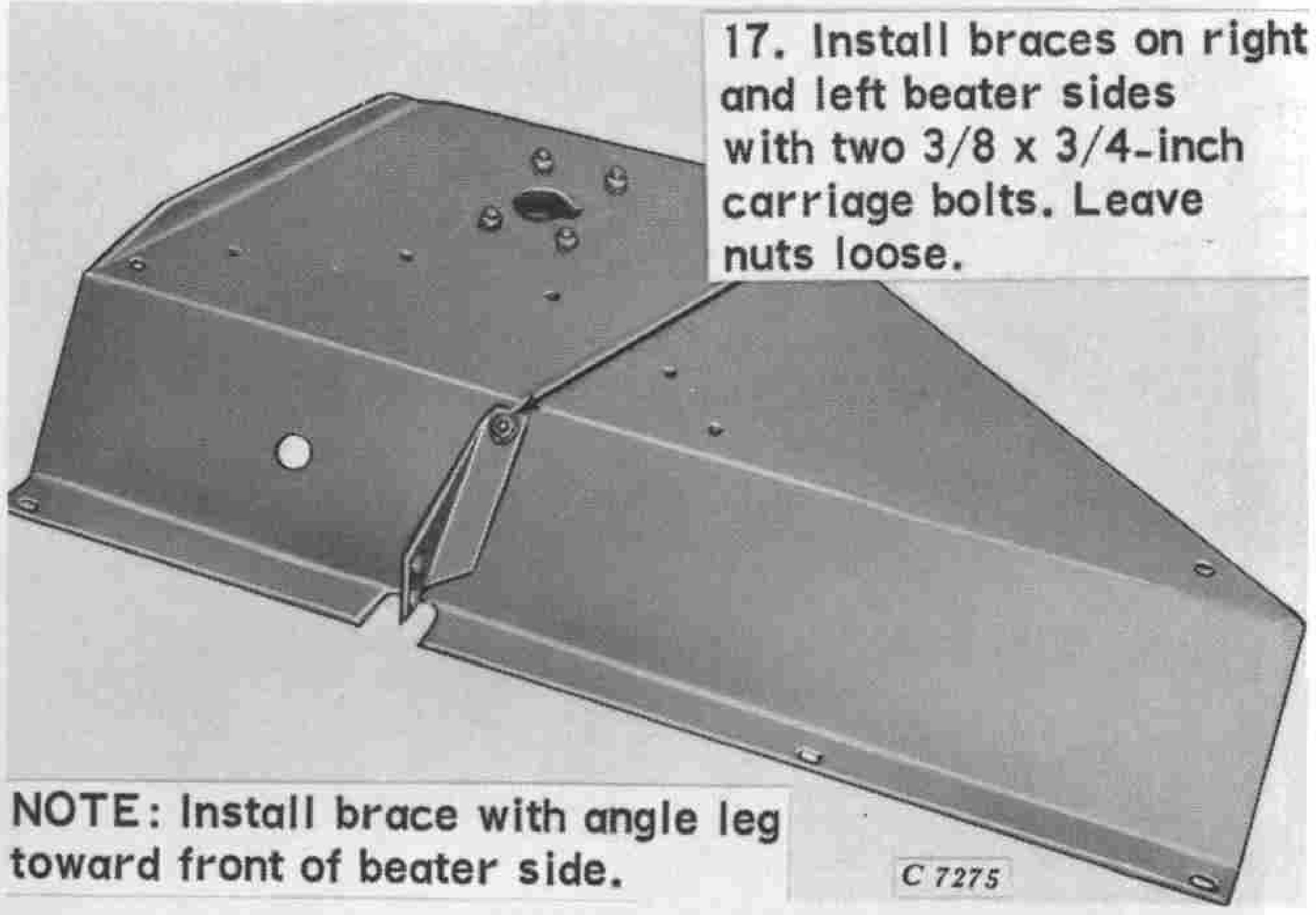
15. Install one 3/8 x 3/4-inch carriage bolt and one 1/16 x 7/16 I.D. x 1-inch plain washer, lock washer and nut on each side.

14. Install right and left fillers with hardware removed previously.

UPPER BEATER—Continued

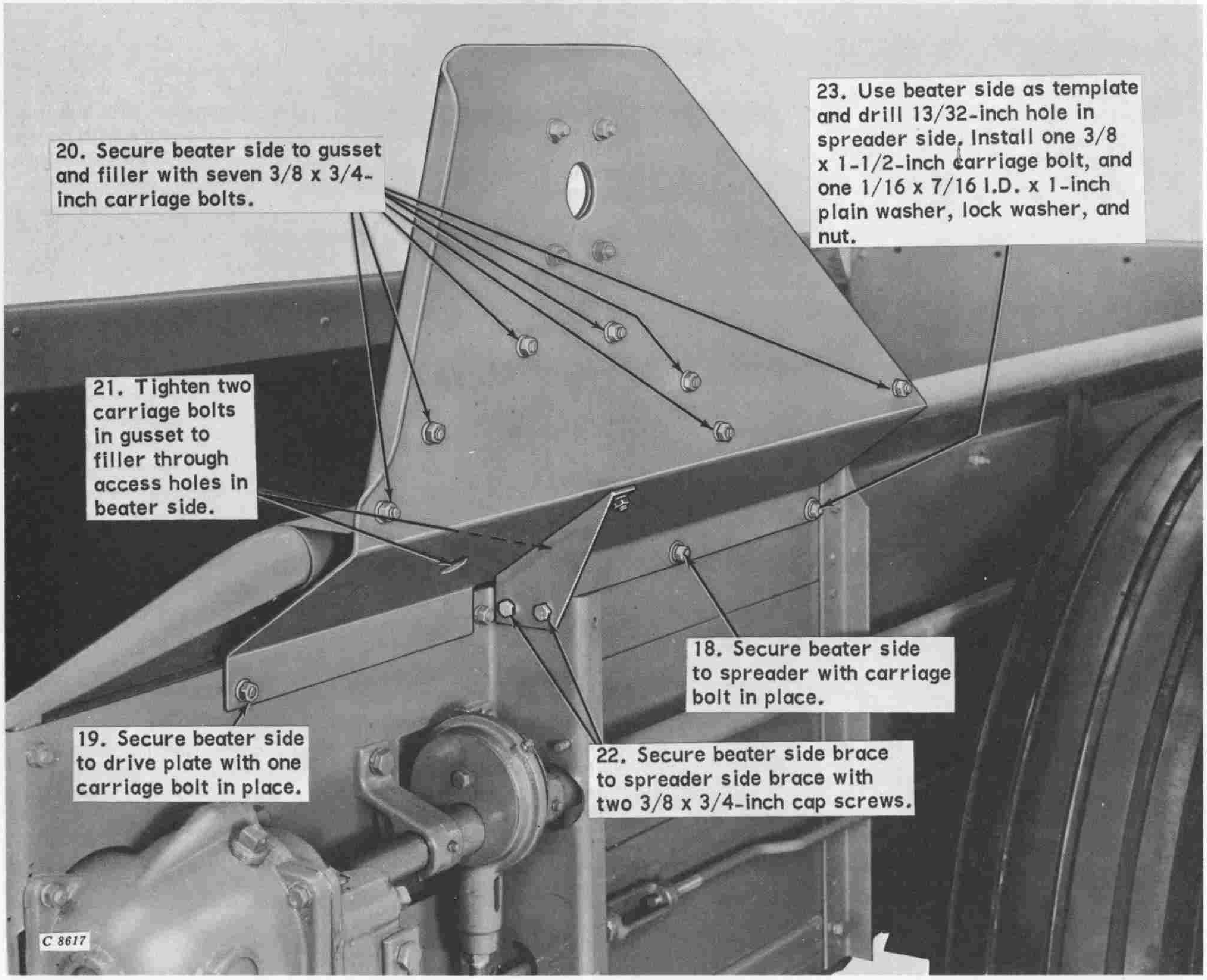


16. Install right and left gussets with two 3/8 x 3/4-inch carriage bolts, plain washers, lock washers, and nuts. Leave nuts loose.



17. Install braces on right and left beater sides with two 3/8 x 3/4-inch carriage bolts. Leave nuts loose.

NOTE: Install brace with angle leg toward front of beater side.



18. Secure beater side to spreader with carriage bolt in place.

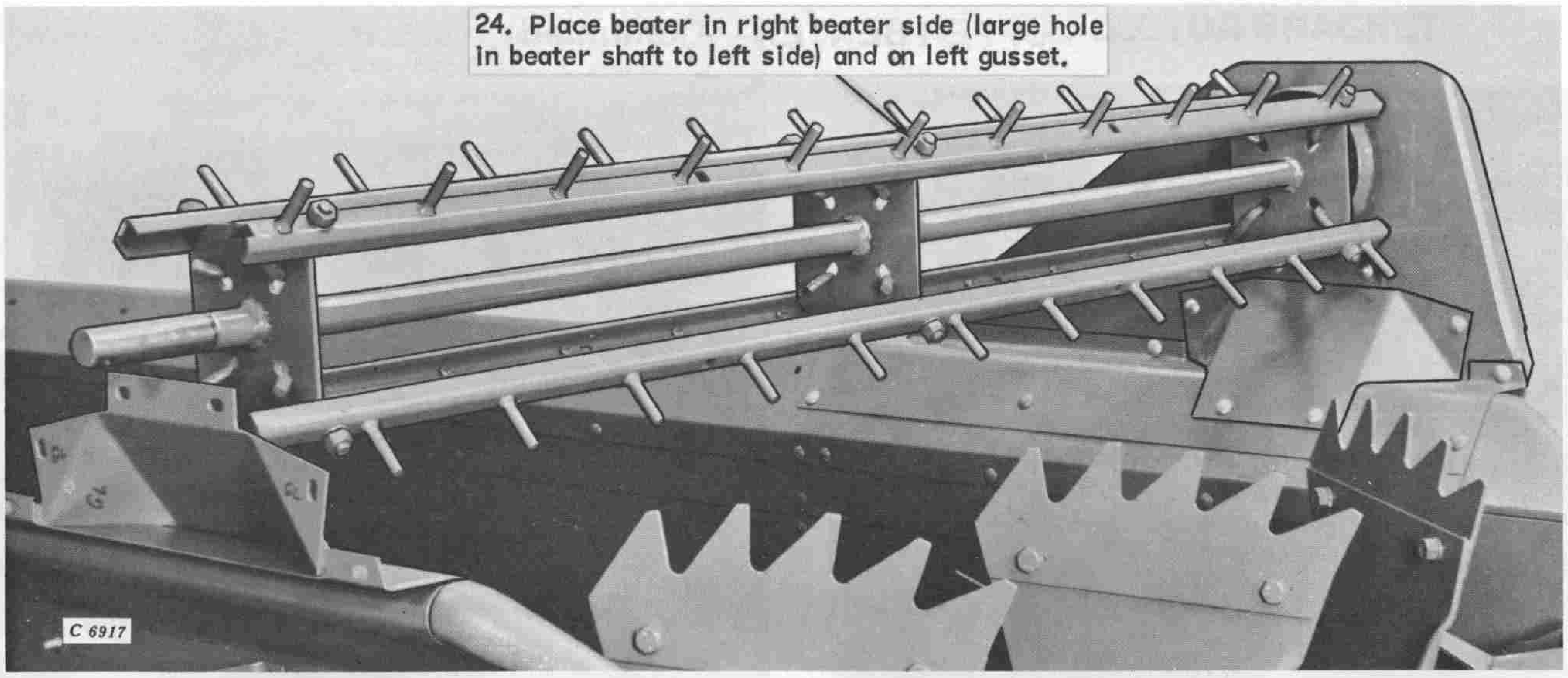
19. Secure beater side to drive plate with one carriage bolt in place.

20. Secure beater side to gusset and filler with seven 3/8 x 3/4-inch carriage bolts.

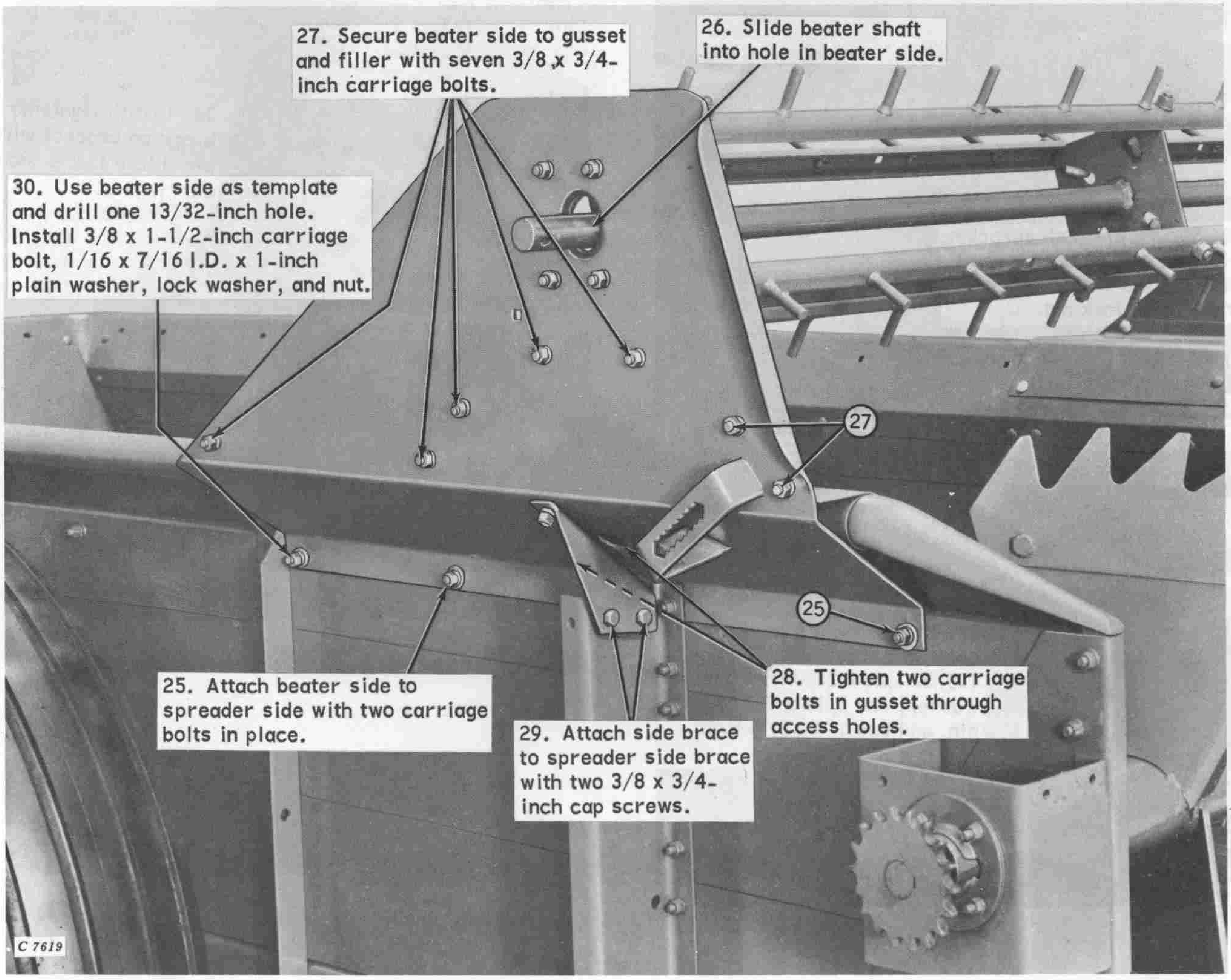
21. Tighten two carriage bolts in gusset to filler through access holes in beater side.

22. Secure beater side brace to spreader side brace with two 3/8 x 3/4-inch cap screws.

23. Use beater side as template and drill 13/32-inch hole in spreader side. Install one 3/8 x 1-1/2-inch carriage bolt, and one 1/16 x 7/16 I.D. x 1-inch plain washer, lock washer, and nut.



24. Place beater in right beater side (large hole in beater shaft to left side) and on left gusset.



27. Secure beater side to gusset and filler with seven 3/8 x 3/4-inch carriage bolts.

26. Slide beater shaft into hole in beater side.

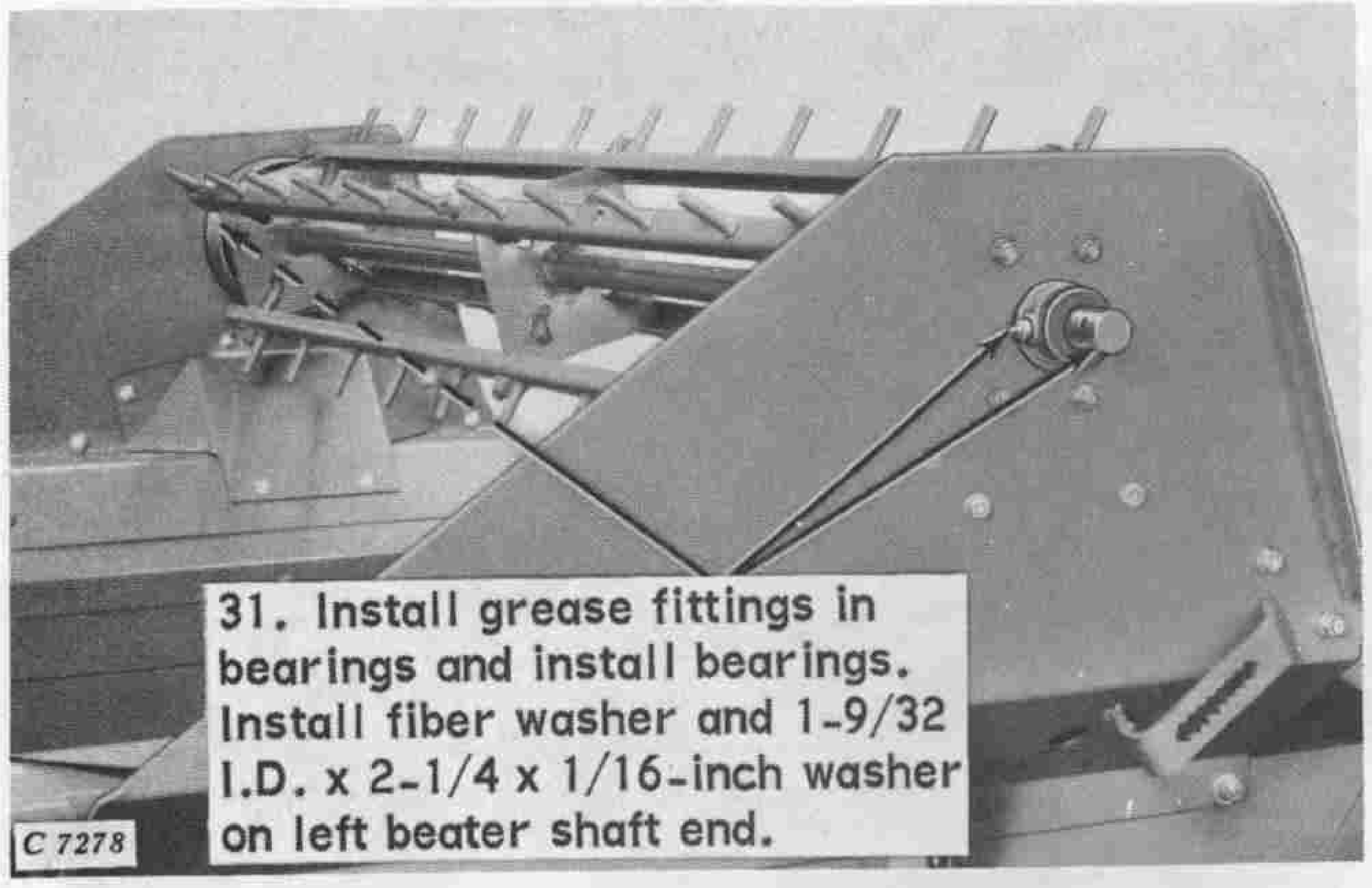
30. Use beater side as template and drill one 13/32-inch hole. Install 3/8 x 1-1/2-inch carriage bolt, 1/16 x 7/16 I.D. x 1-inch plain washer, lock washer, and nut.

25. Attach beater side to spreader side with two carriage bolts in place.

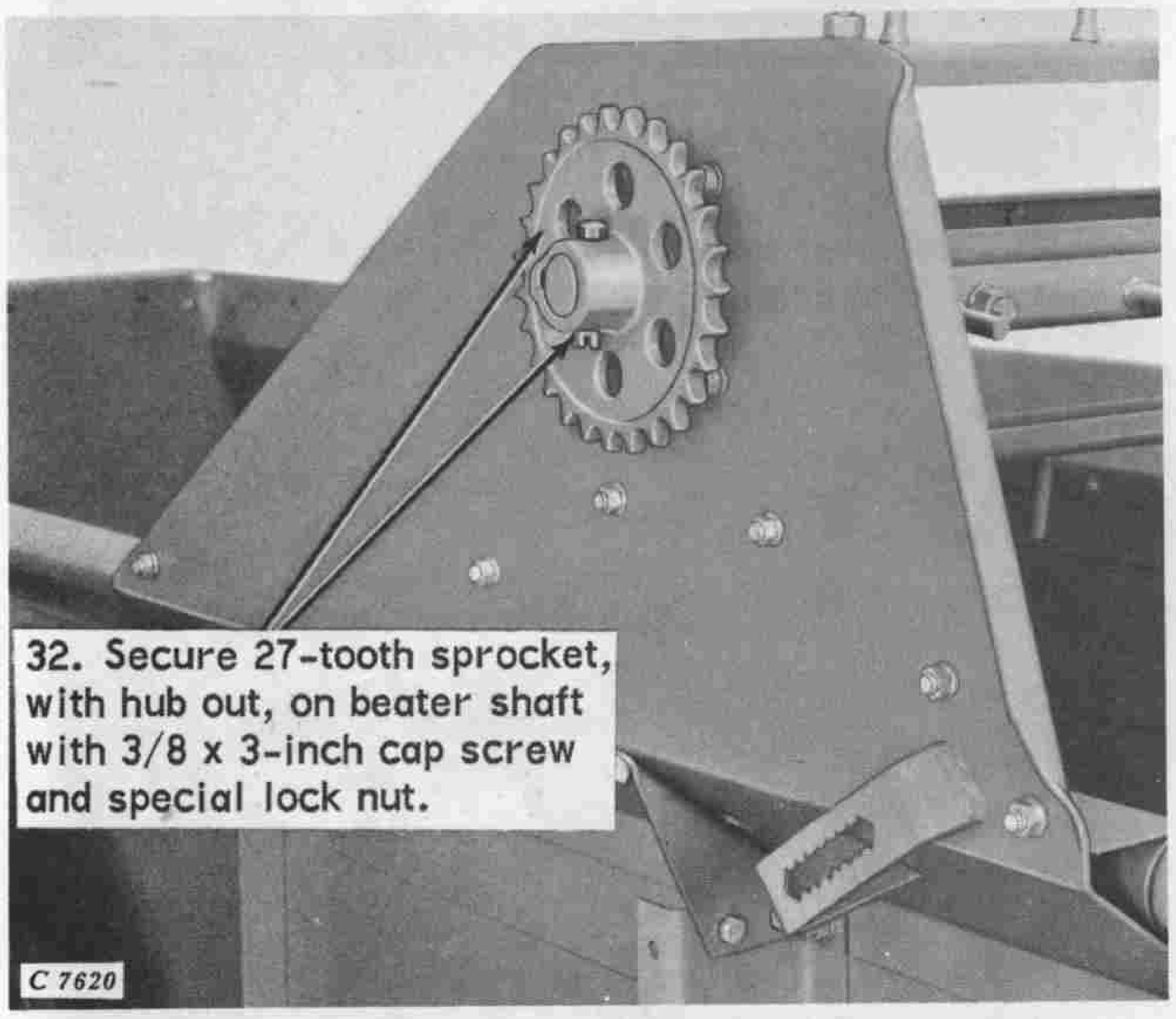
29. Attach side brace to spreader side brace with two 3/8 x 3/4-inch cap screws.

28. Tighten two carriage bolts in gusset through access holes.

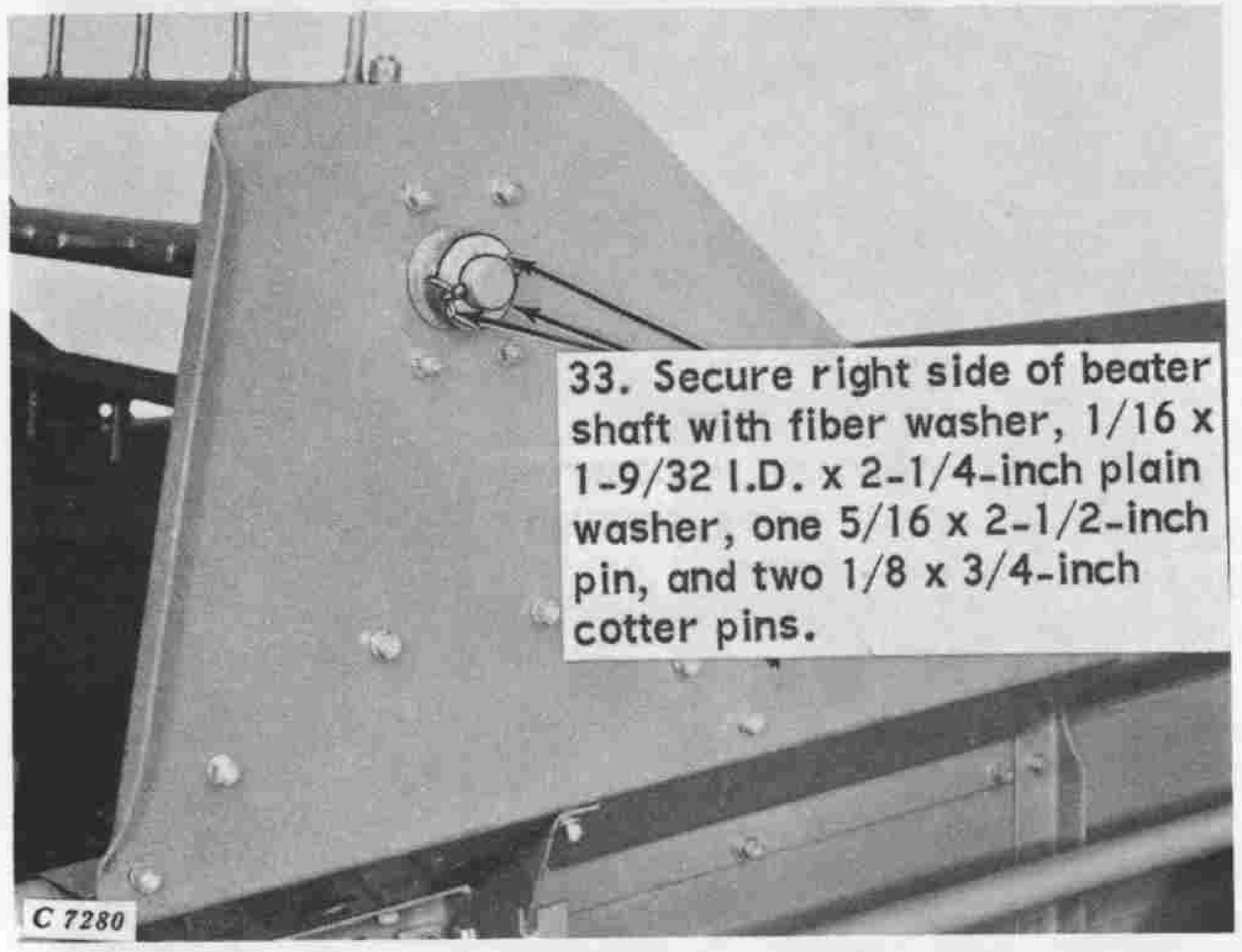
UPPER BEATER—Continued


C 7278

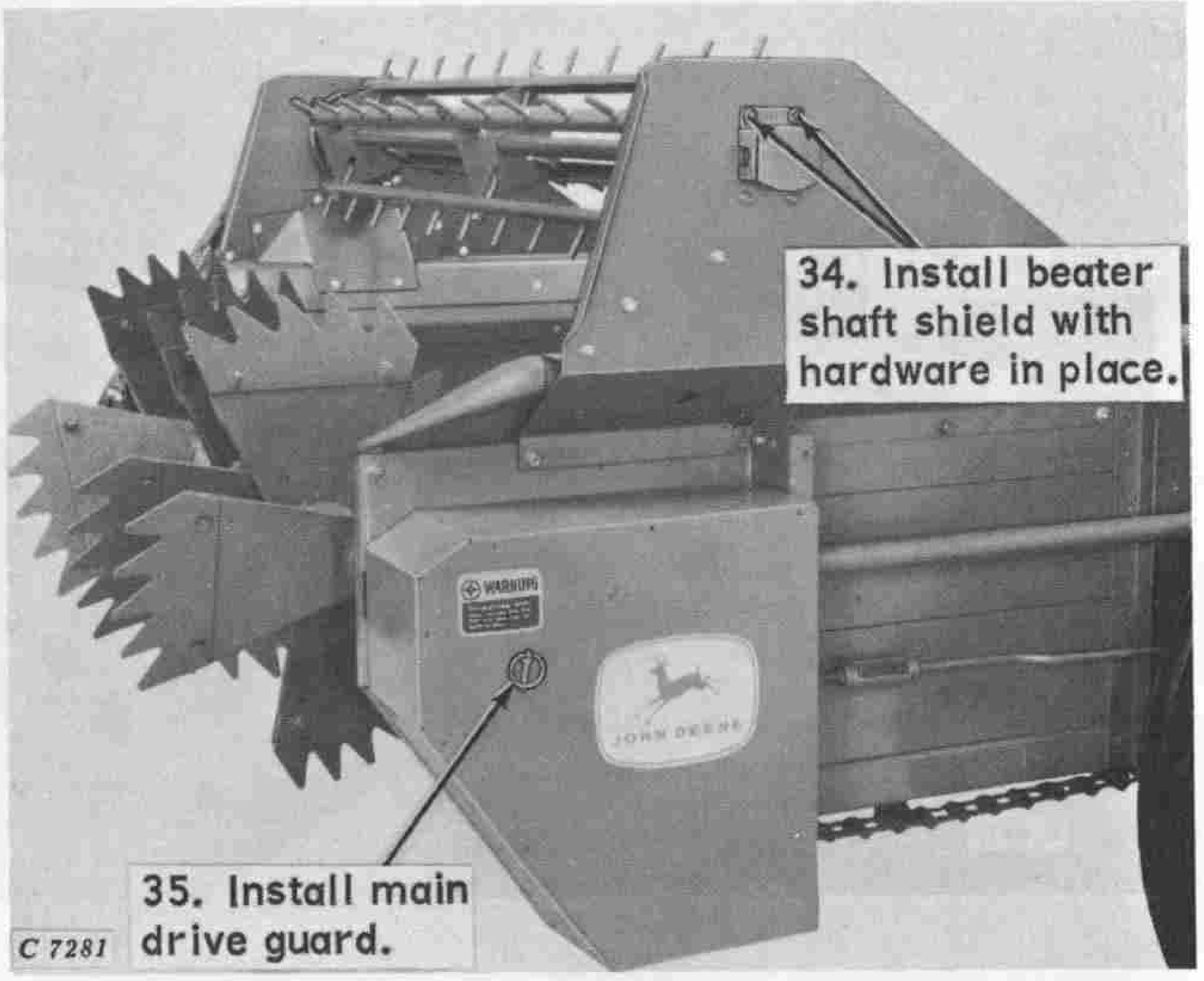
31. Install grease fittings in bearings and install bearings. Install fiber washer and 1-9/32 I.D. x 2-1/4 x 1/16-inch washer on left beater shaft end.


C 7620

32. Secure 27-tooth sprocket, with hub out, on beater shaft with 3/8 x 3-inch cap screw and special lock nut.


C 7280

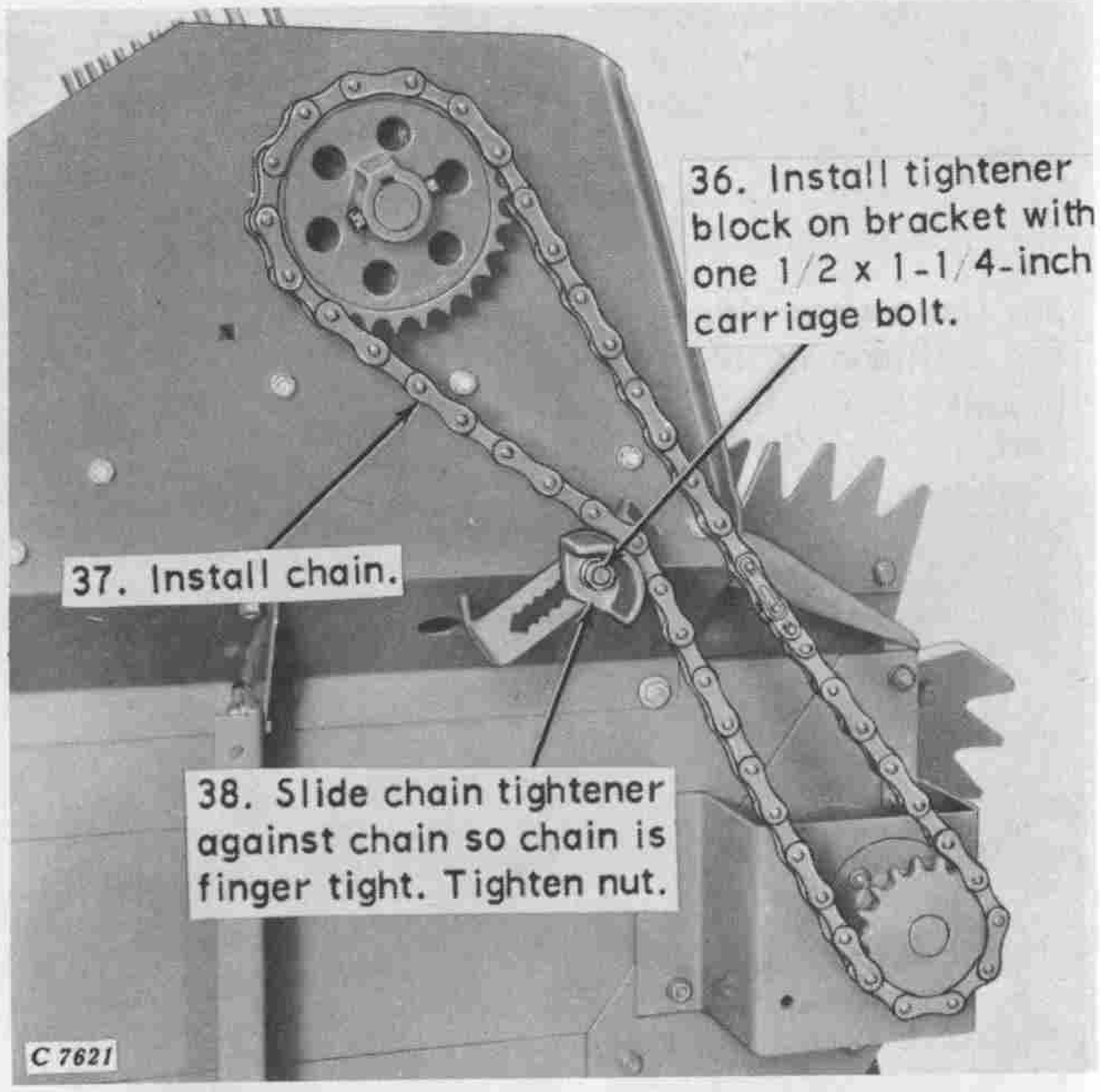
33. Secure right side of beater shaft with fiber washer, 1/16 x 1-9/32 I.D. x 2-1/4-inch plain washer, one 5/16 x 2-1/2-inch pin, and two 1/8 x 3/4-inch cotter pins.



C 7281

34. Install beater shaft shield with hardware in place.

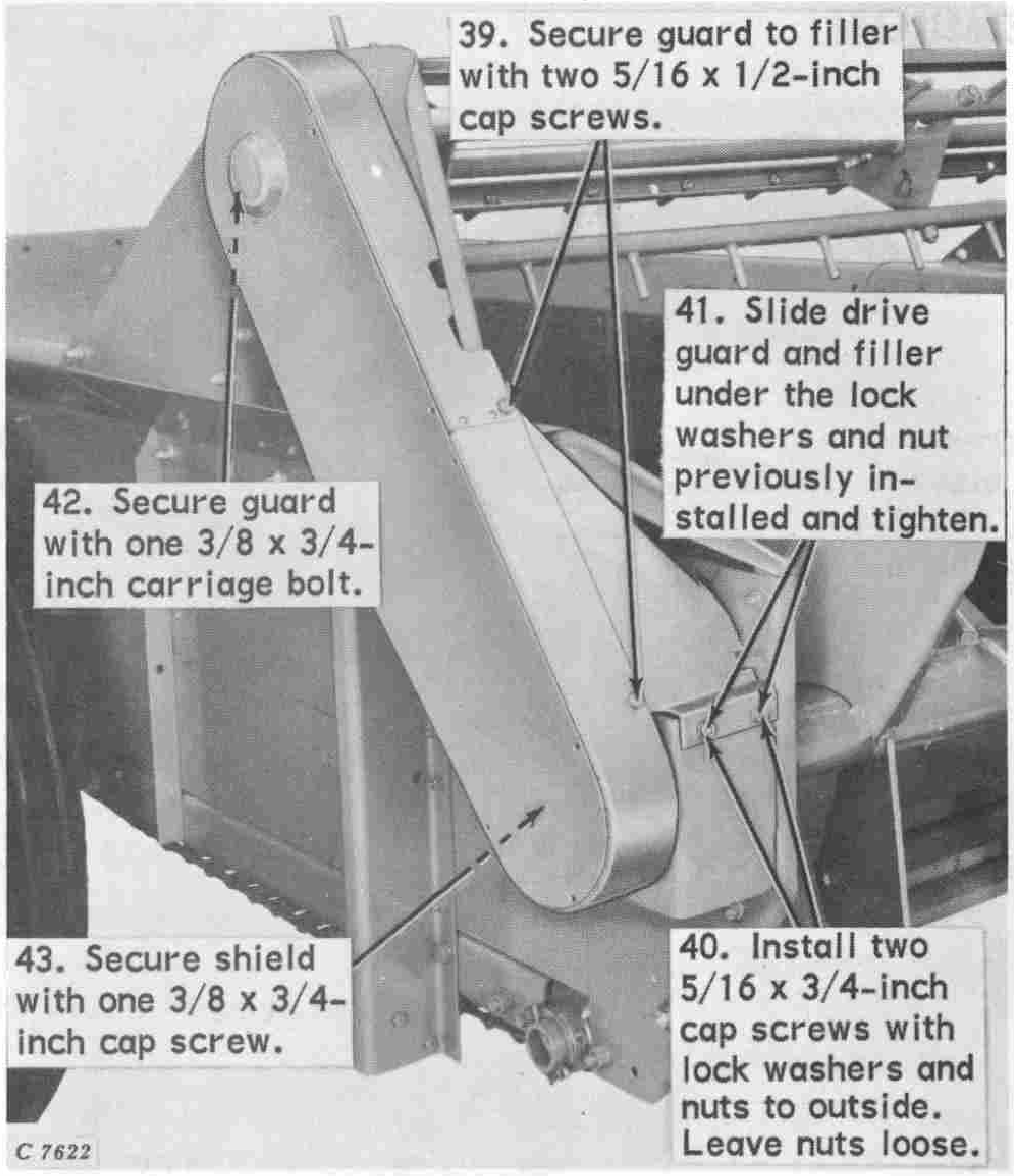
35. Install main drive guard.


C 7621

36. Install tightener block on bracket with one 1/2 x 1-1/4-inch carriage bolt.

37. Install chain.

38. Slide chain tightener against chain so chain is finger tight. Tighten nut.



39. Secure guard to filler with two 5/16 x 1/2-inch cap screws.

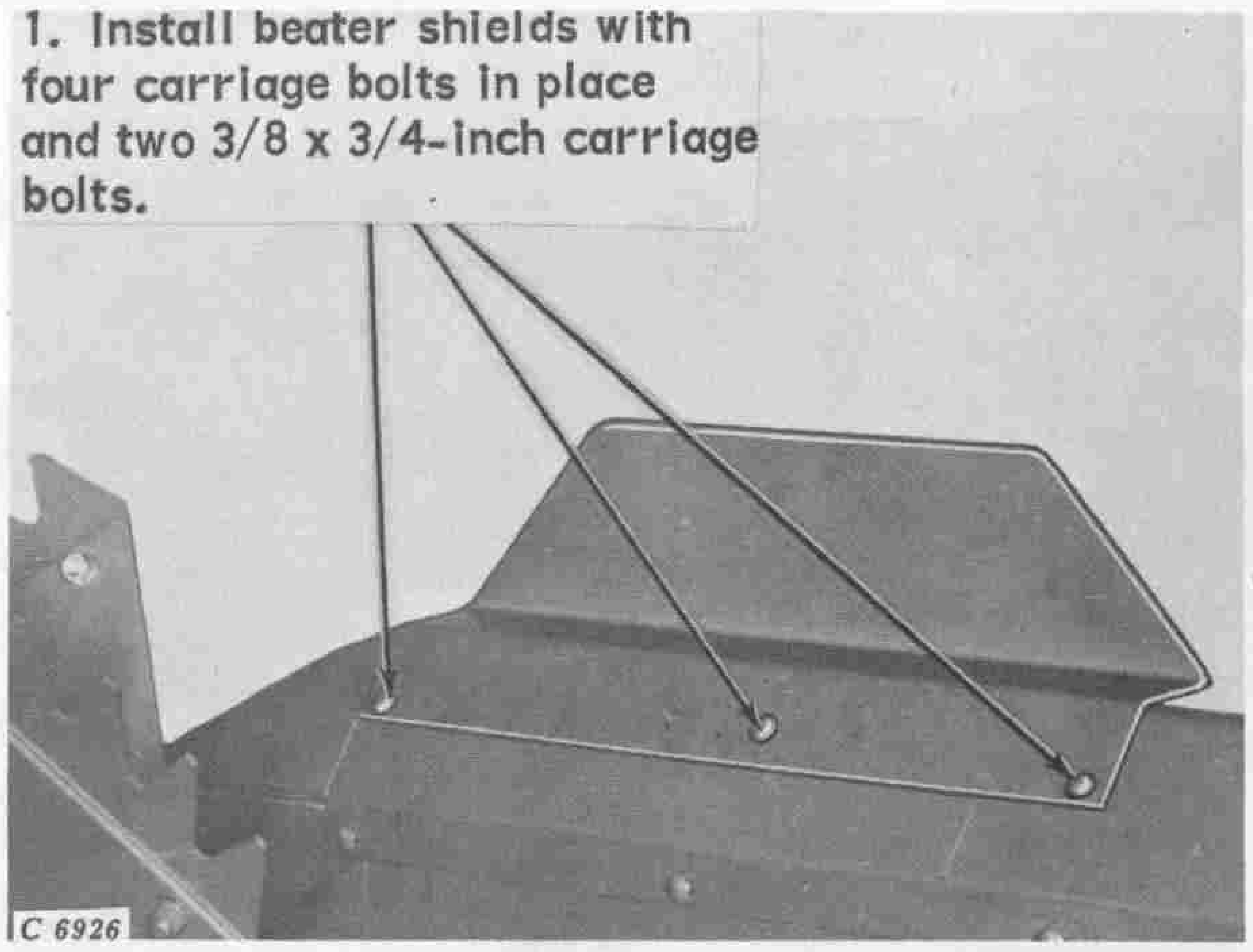
40. Install two 5/16 x 3/4-inch cap screws with lock washers and nuts to outside. Leave nuts loose.

41. Slide drive guard and filler under the lock washers and nut previously installed and tighten.

42. Secure guard with one 3/8 x 3/4-inch carriage bolt.

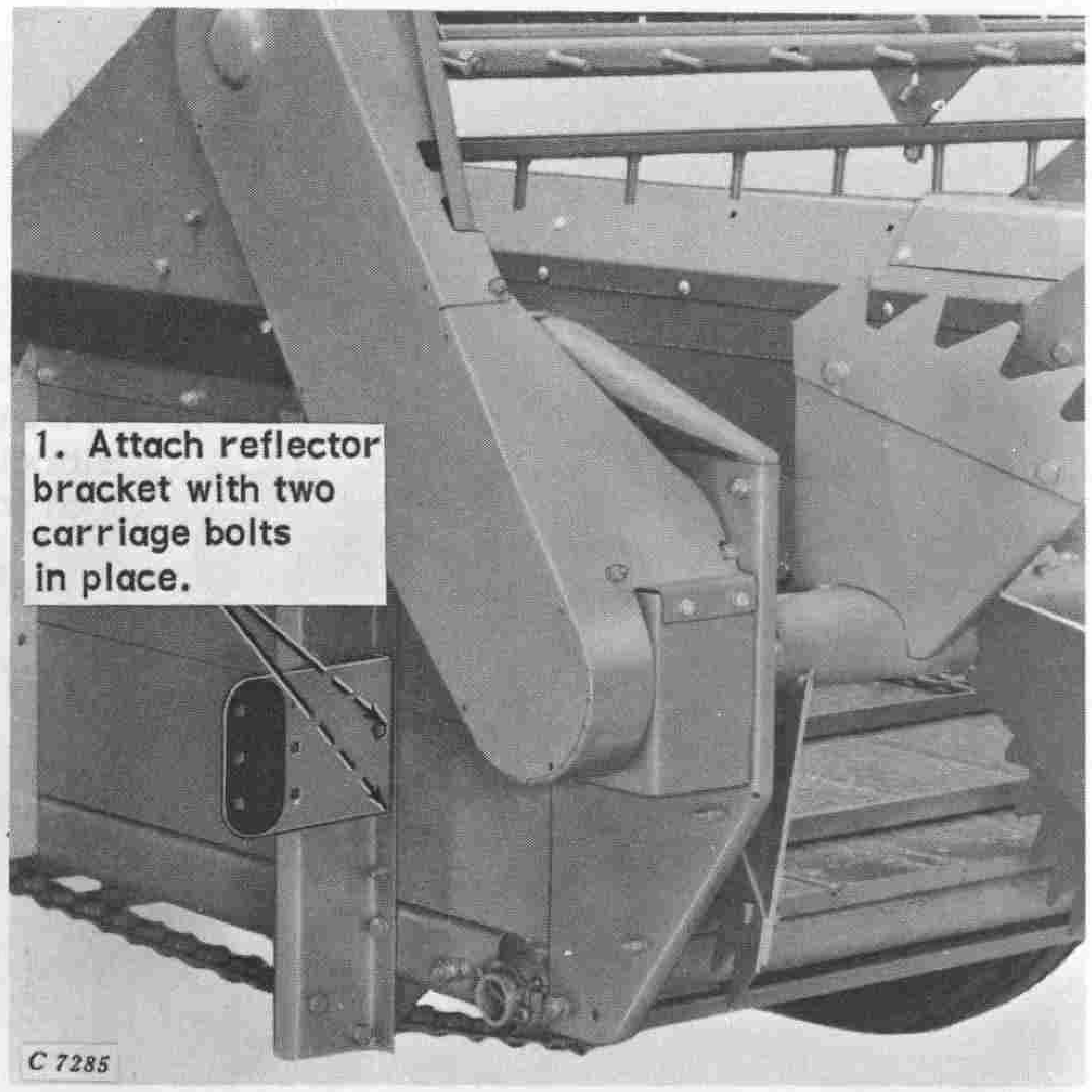
43. Secure shield with one 3/8 x 3/4-inch cap screw.

BEATER SHIELDS



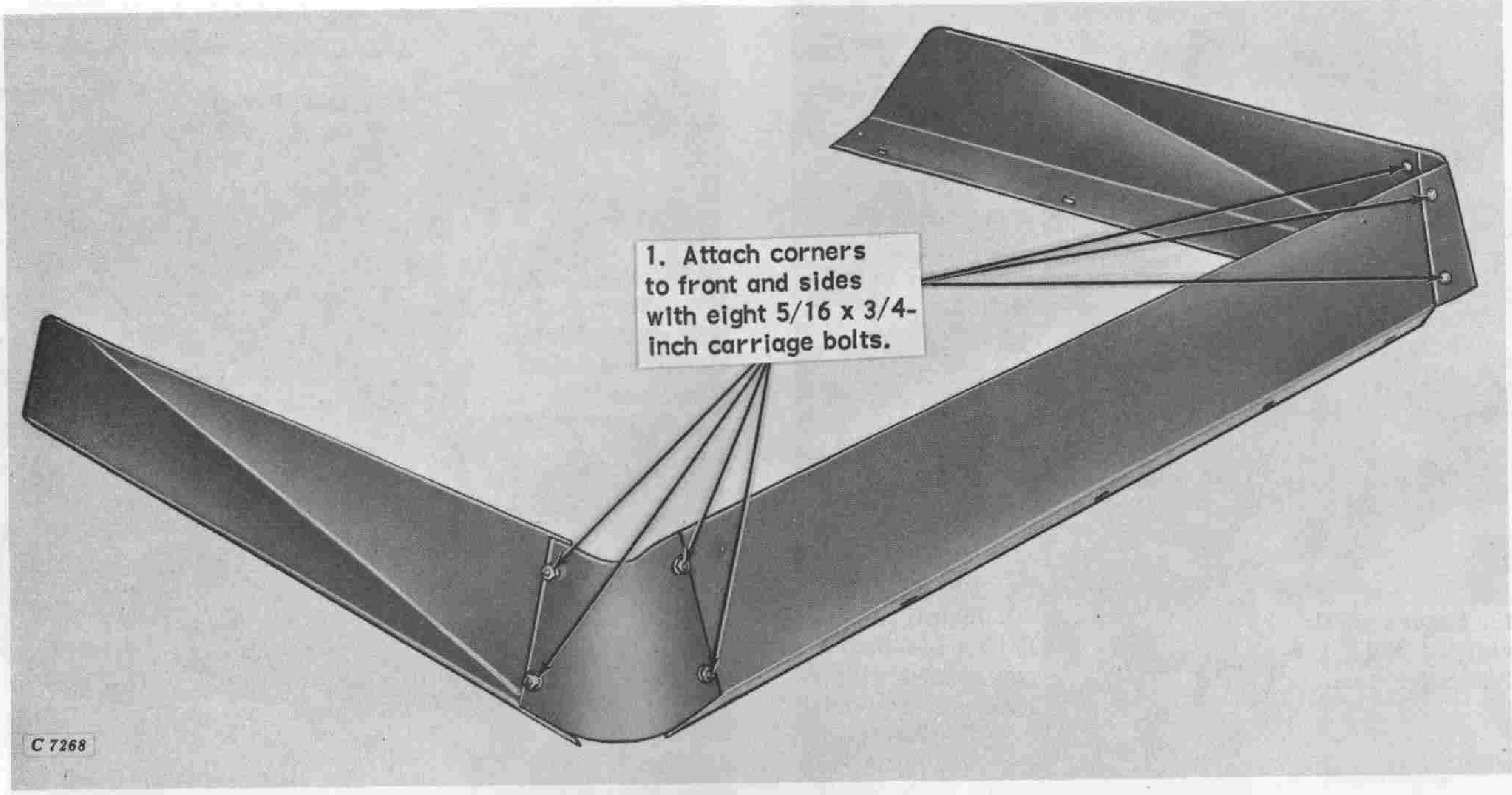
1. Install beater shields with four carriage bolts in place and two 3/8 x 3/4-inch carriage bolts.

REFLECTOR BRACKET



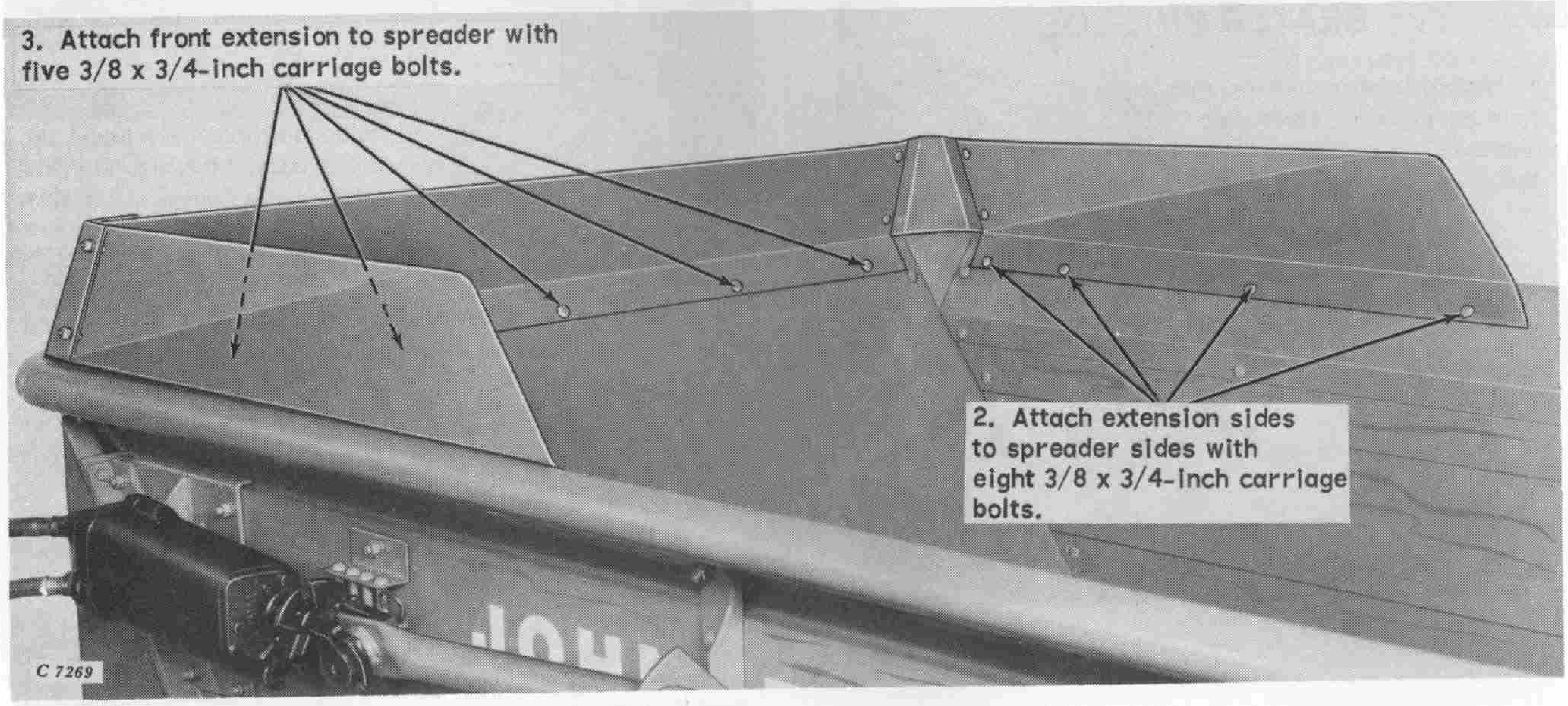
1. Attach reflector bracket with two carriage bolts in place.

DASH EXTENSION



1. Attach corners to front and sides with eight 5/16 x 3/4-inch carriage bolts.

C 7268



3. Attach front extension to spreader with five 3/8 x 3/4-inch carriage bolts.

2. Attach extension sides to spreader sides with eight 3/8 x 3/4-inch carriage bolts.

C 7269

Specifications

RATED CAPACITY (ASAE):

Former Standard	
34	150 Bushels
40	175 Bushels
Struck Level	
34	77 Cubic Feet
40	99 Cubic Feet
15 Inches Above Paddle Beater	
34	155 Cubic Feet
40	170 Cubic Feet
15 Inches Above Upper Beater	
34	178 Cubic Feet
40	199 Cubic Feet

OVER-ALL LENGTH:

34	199 Inches
40	209-3/16 Inches

OVER-ALL WIDTH:

34	82 Inches
40	93 Inches

OVER-ALL HEIGHT:

Basic Machine	
34	45-3/4 Inches
40	47-1/2 Inches
With Upper Beater	
34	60-1/4 Inches
40	62 Inches

WHEEL TREAD WIDTH:

34	73-1/4 Inches
40	79-3/4 Inches

INTERIOR BOX DIMENSIONS:

Width:	
34	52-1/4 Inches
40	52-1/4 Inches
Depth (to top of flare):	
34	20 Inches
40	24 Inches
Length (bottom of dash to beater centerline):	
34	122 Inches
40	129-3/8 Inches

WEIGHT EMPTY:

Equipped with 9-Inch Widespread, Drop-Center Rim Wheels, Less Tires and Tubes:

34	1477 Pounds
40	1615 Pounds

OPERATION	540 or 1000 rpm PTO

BED CONVEYOR SPEED (at 540 or 1000 rpm):

1st Setting	Bed Conveyor in Neutral with Beater Engaged
2nd Setting	3.33 Feet Per Minute
3rd Setting	6.66 Feet Per Minute
4th Setting	9.99 Feet Per Minute with Beater Engaged
5th Setting	9.99 Feet Per Minute with Beater Disengaged

BEATERS:

Widespreads	9- or 18-Inch Drum with 27-Inch Diameter Flighting
Paddle	3-1/2-Inch Tube with 27-Inch Paddle Diameter
Speed of Widespreads or Paddle	300 rpm (either 540 or 1000 rpm PTO)
Upper Beater (Extra Equipment)	13-3/8-Inch Pin and Bar-Type Beater
Speed of Upper Beater	205 rpm (either 540 or 1000 rpm PTO)

(Specifications and design subject to change without notice.)

SERIAL NUMBER

When ordering parts, always bring with you the model and serial number as given on the serial number plate. By doing so, you will assist your John Deere dealer in giving you prompt, efficient service. For your convenience, a space is provided at right for recording this number.

The spreader serial number is located on the right-hand front side.

Serial No. ....

Date of Purchase..................... 19 ....

(To be filled in by purchaser.)

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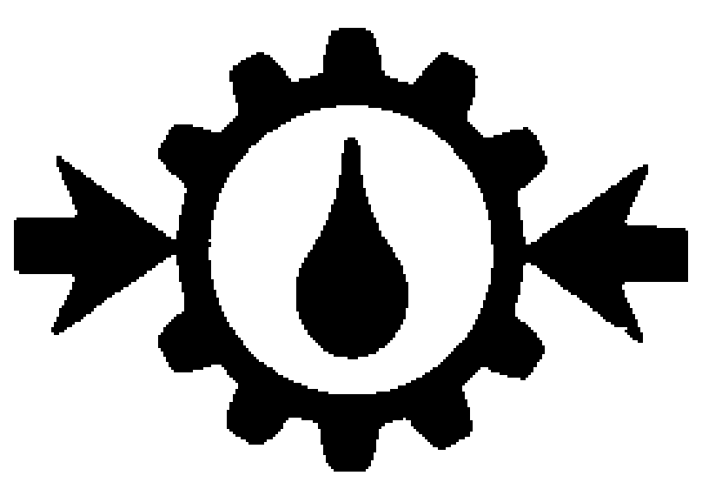
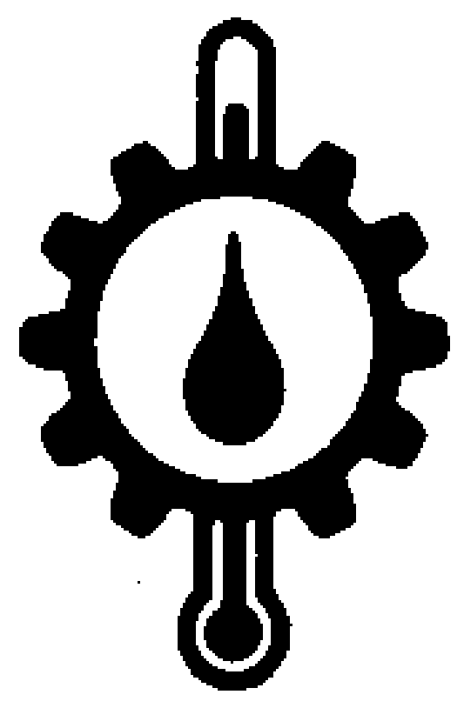
WORLDWIDE SYMBOLS FOR OPERATOR CONTROLS

Symbols instead of words; that's what John Deere is using to promote worldwide identification of operator controls. Once standardized, they give a quick, positive message anywhere in the world – without translation. Study the symbols below and learn to recognize them at a glance.


TRANSMISSION OIL PRESSURE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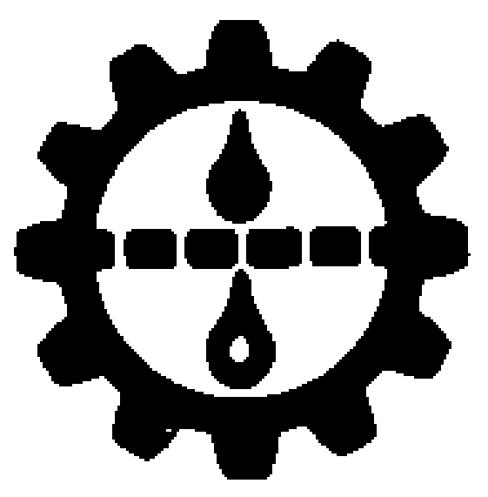
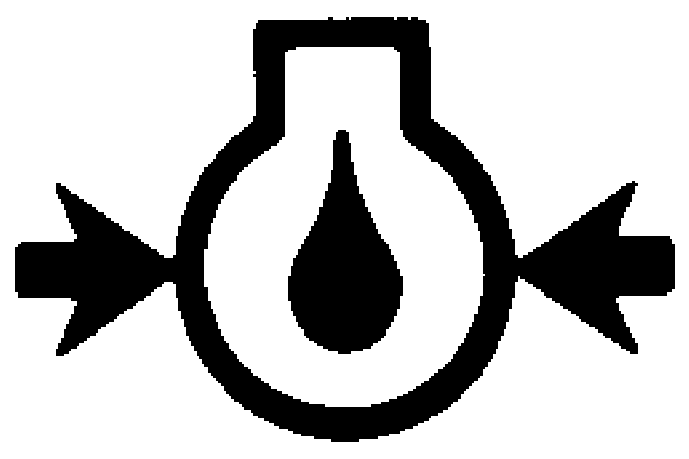

TRANSMISSION OIL FILTER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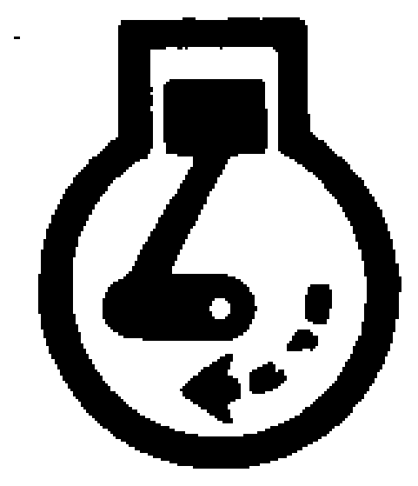
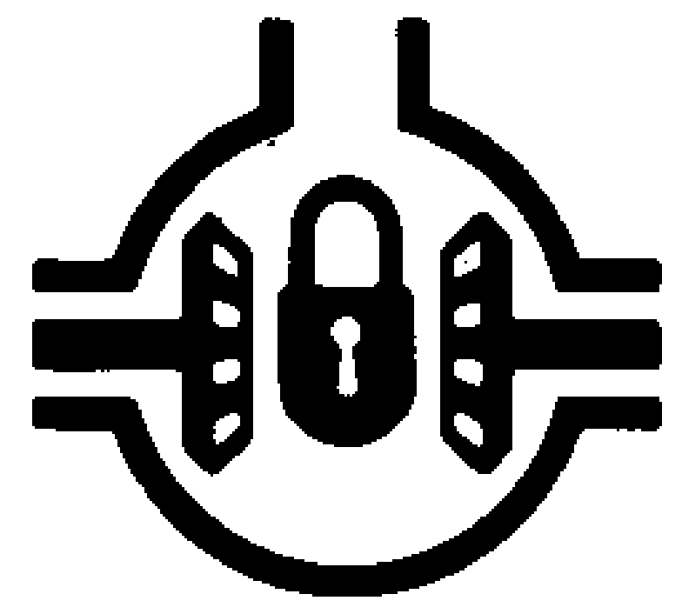
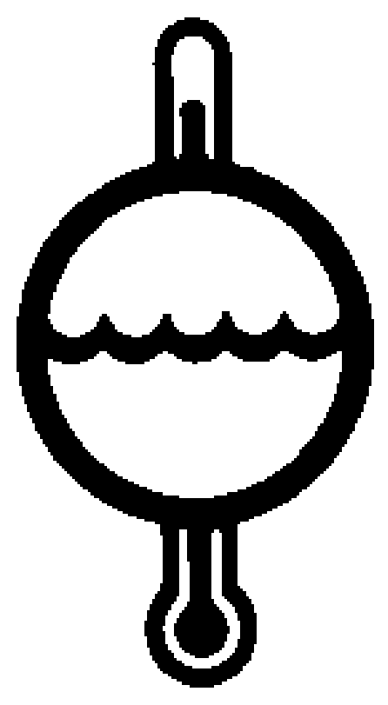

ENGINE R P M


DIFFERENTIAL LOCK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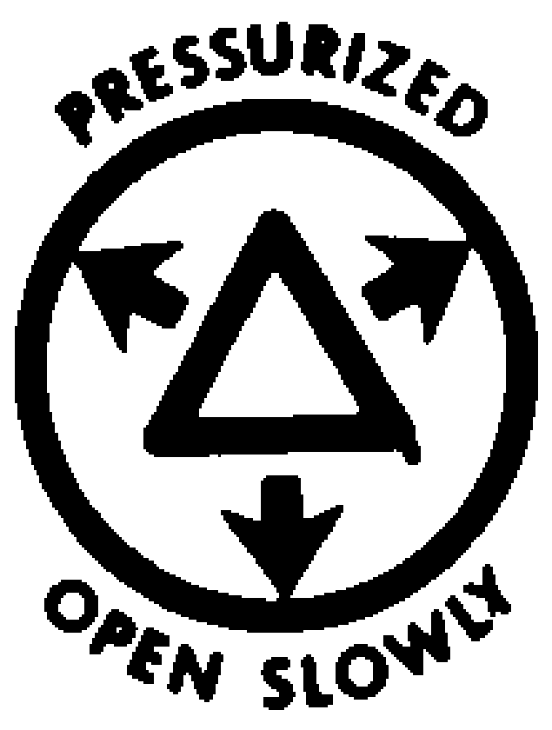
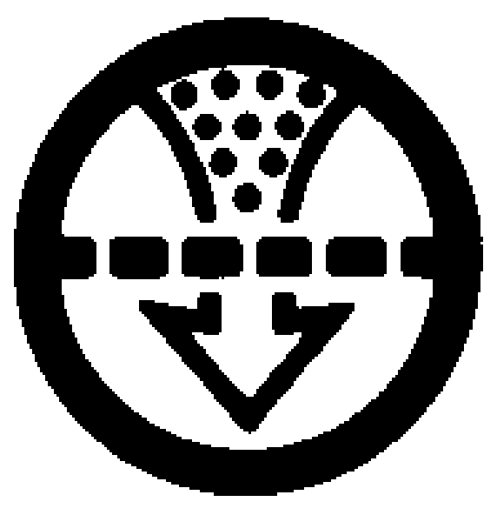
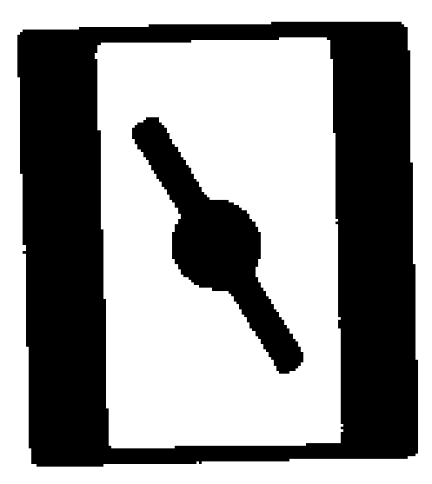


PRESSURIZED – OPEN SLOWLY


AIR FILTER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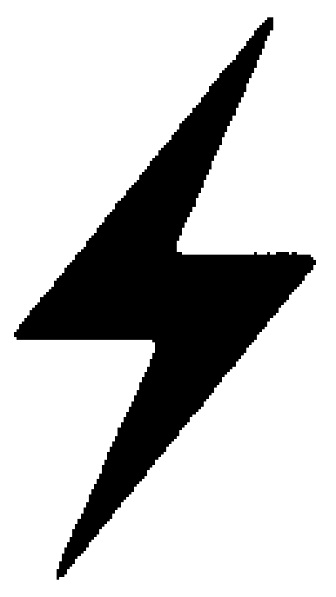
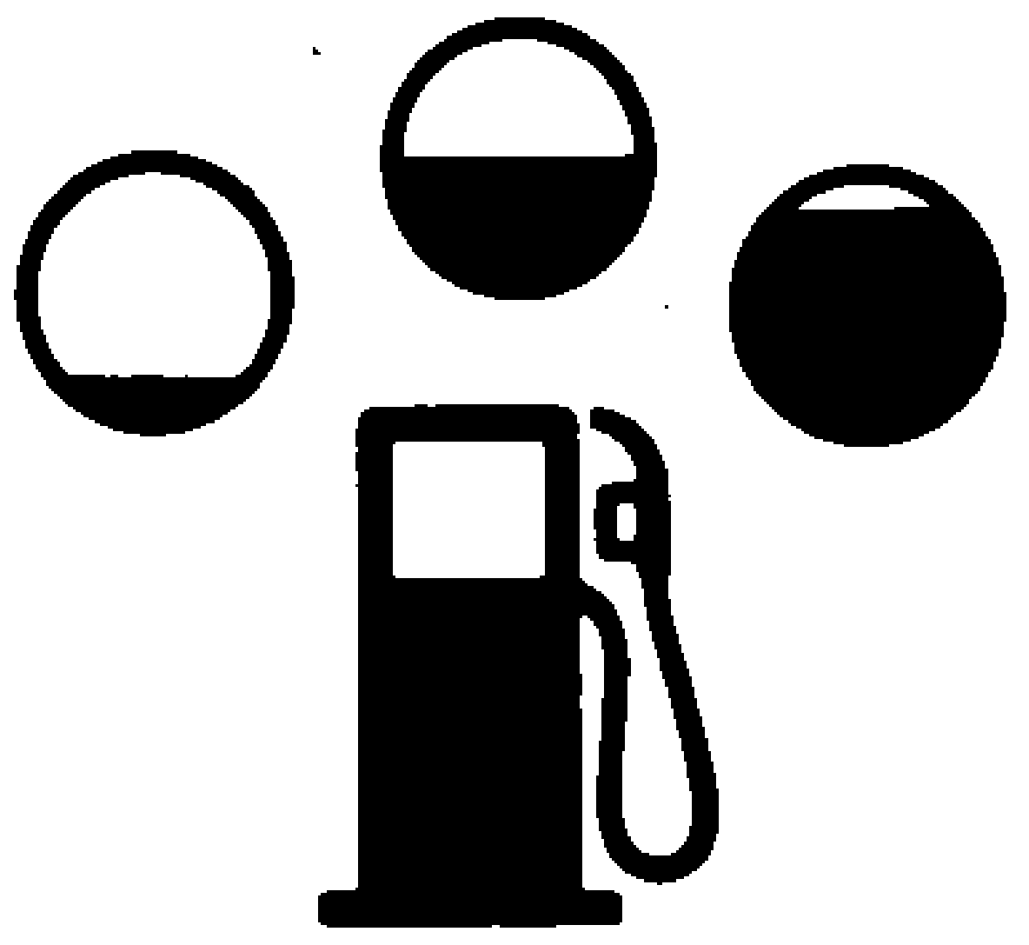

AMMETER OR GENERATOR LIGHT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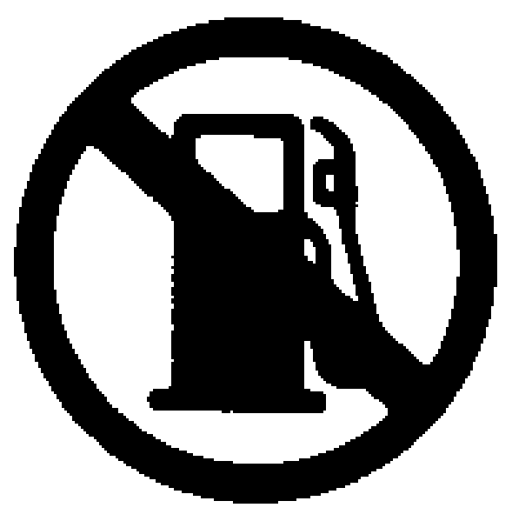
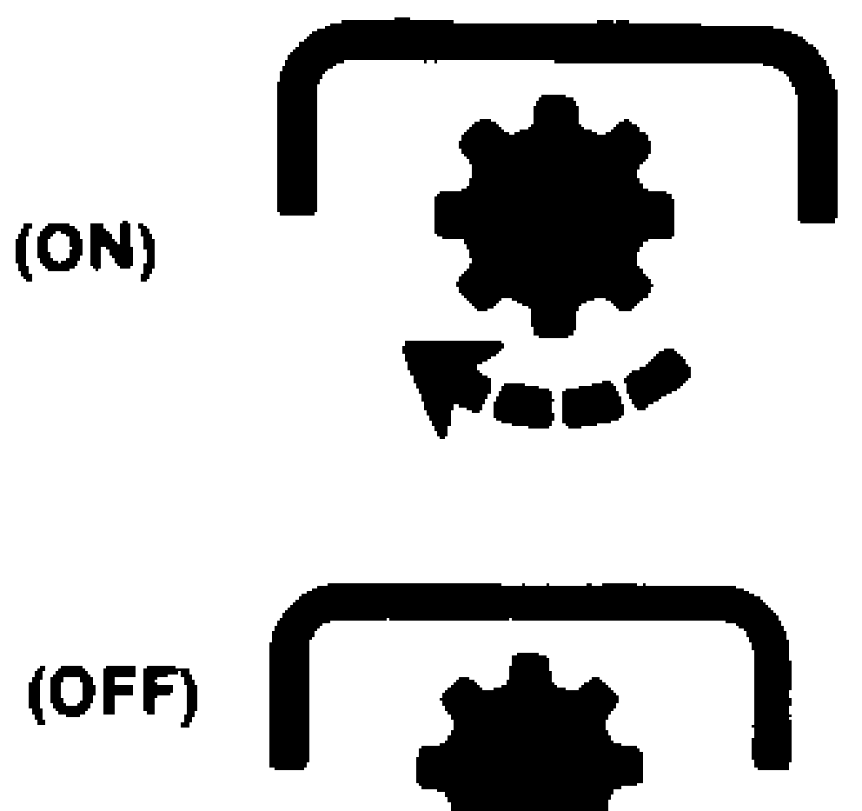
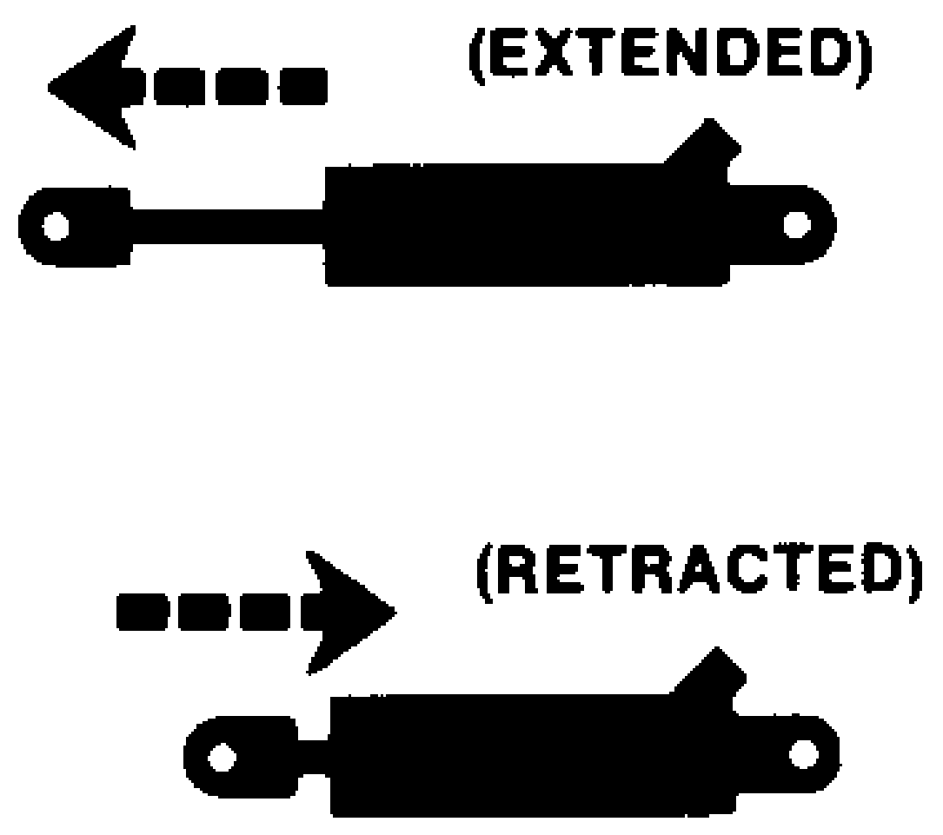

FUEL SHUTOFF



POWER TAKE-OFF



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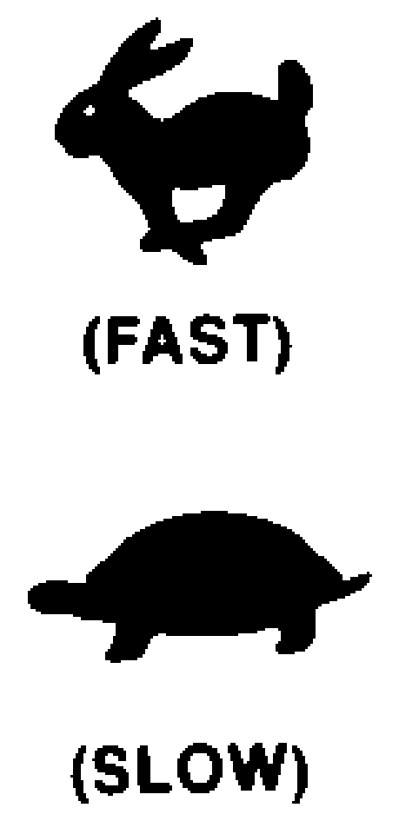

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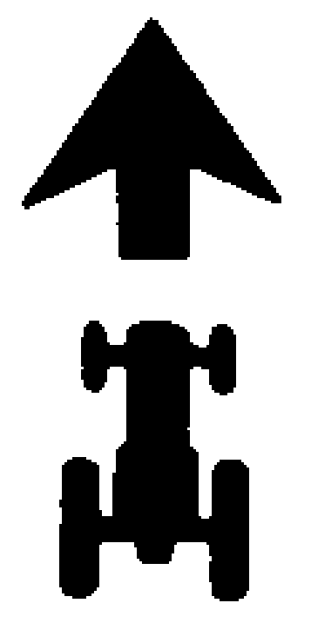
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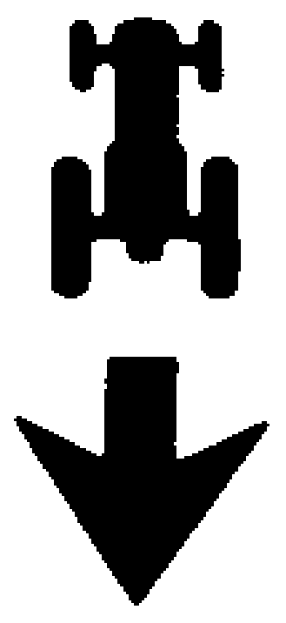
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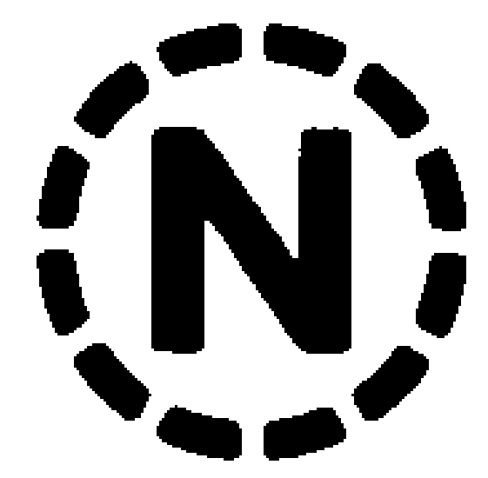
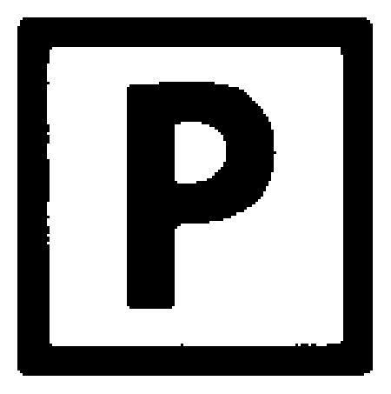

NEUTRAL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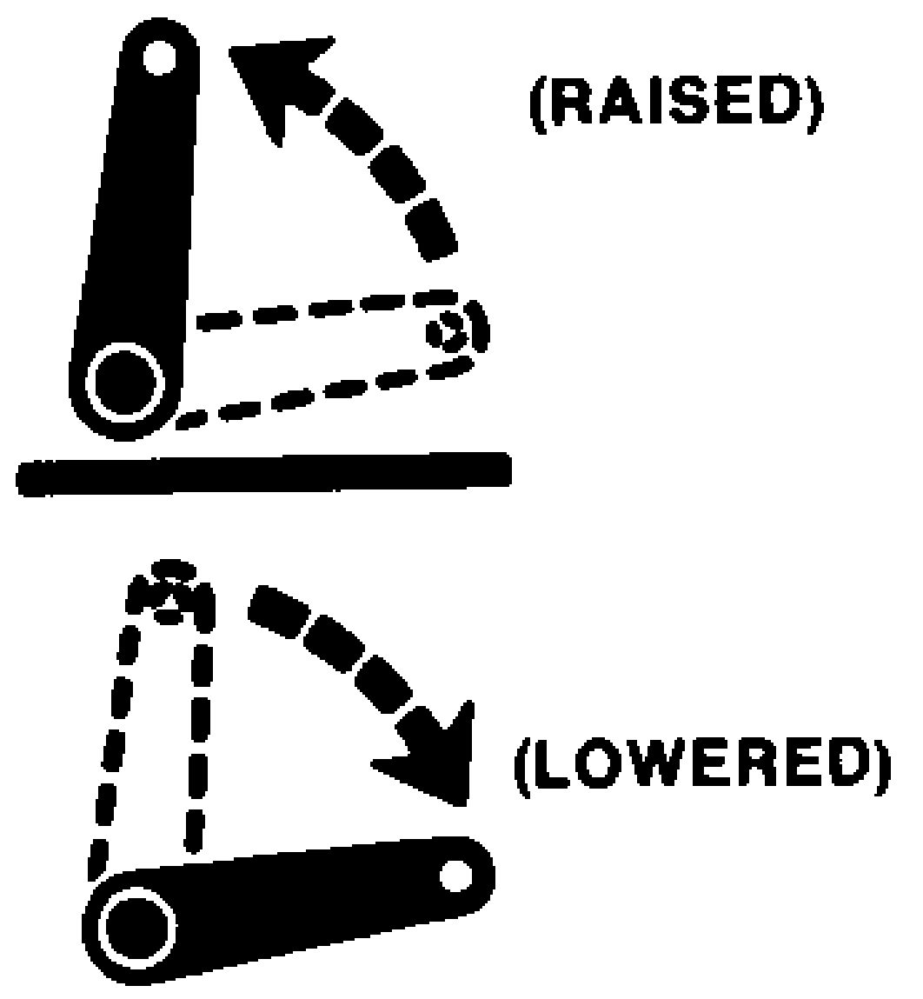
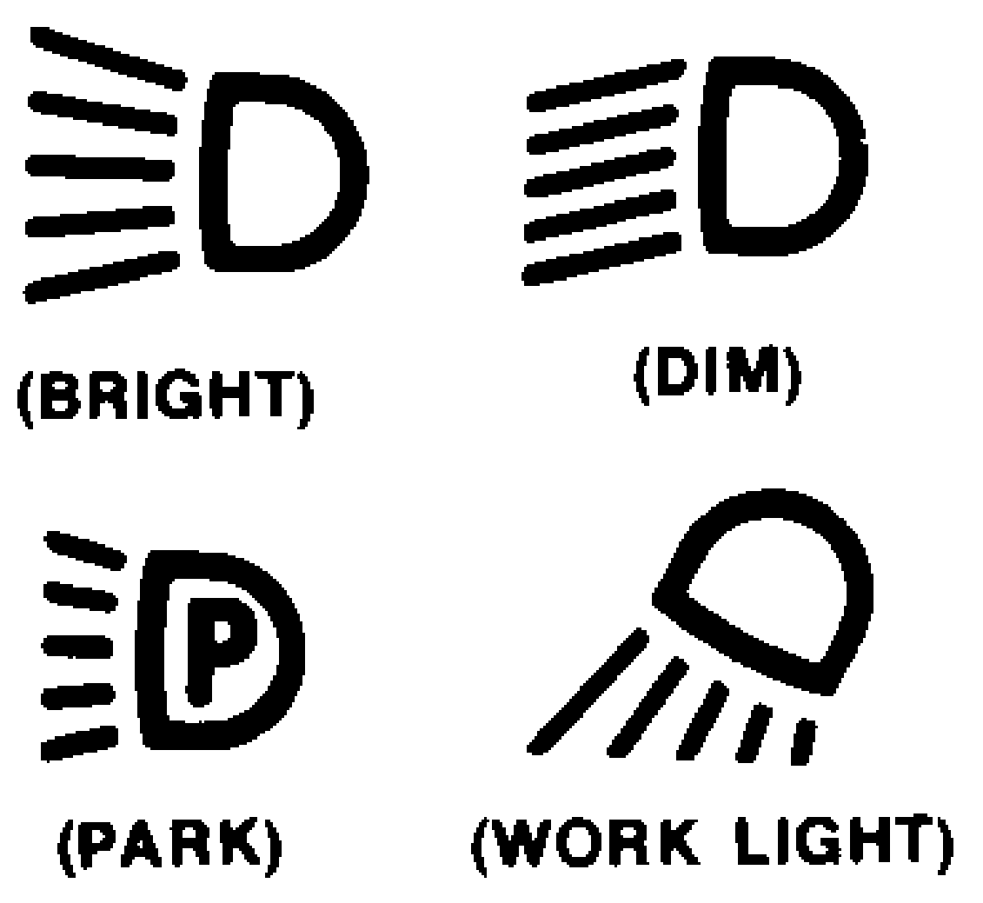
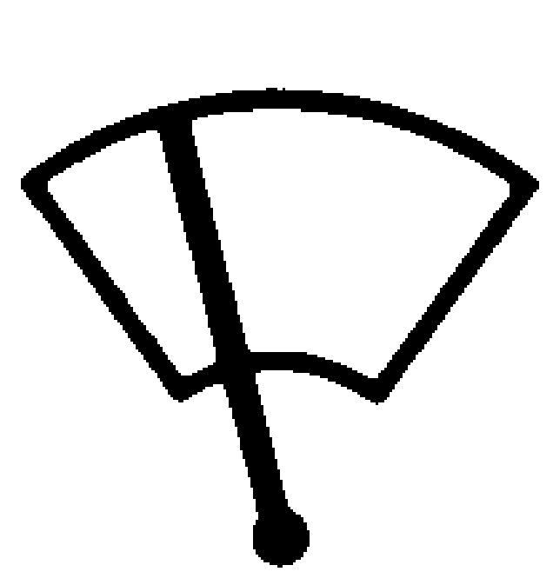
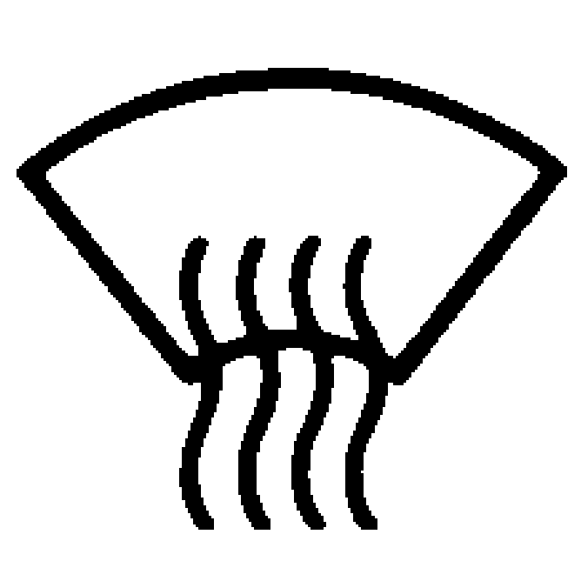


ROCKSHAFT



LIGHTS


WINDSHIELD WIPER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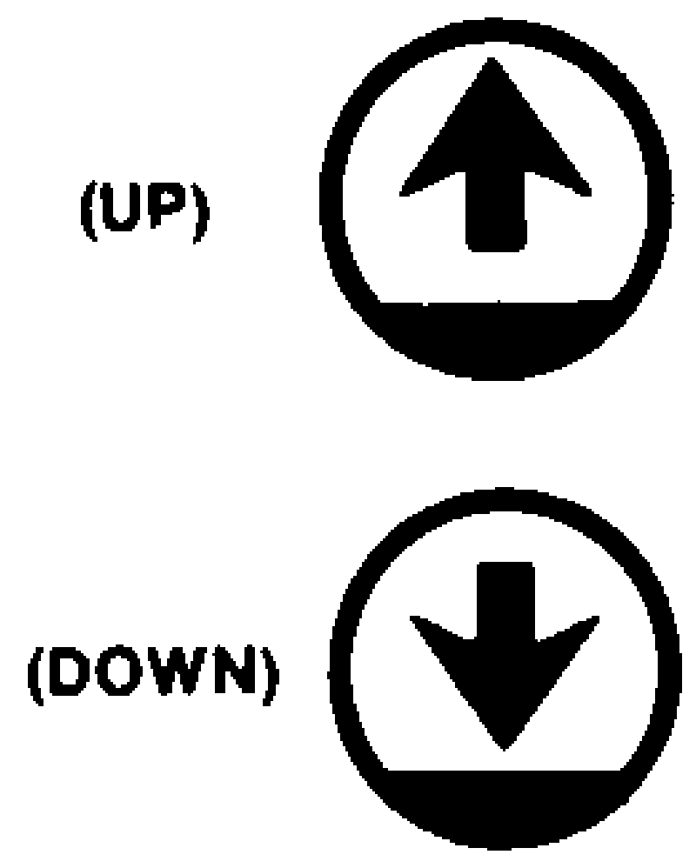
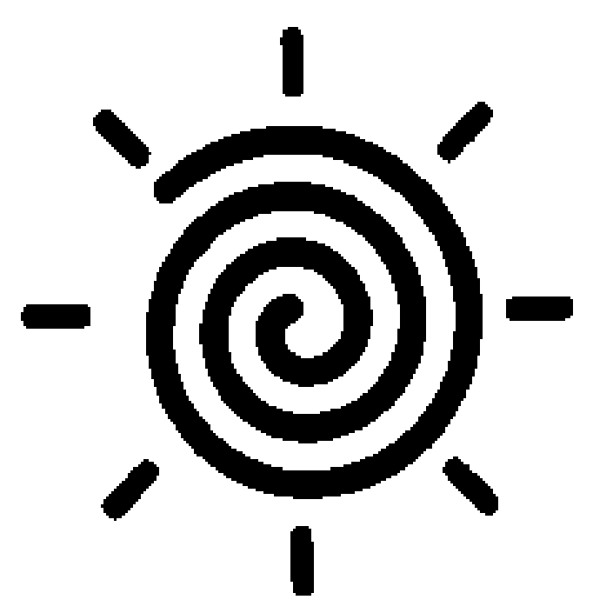
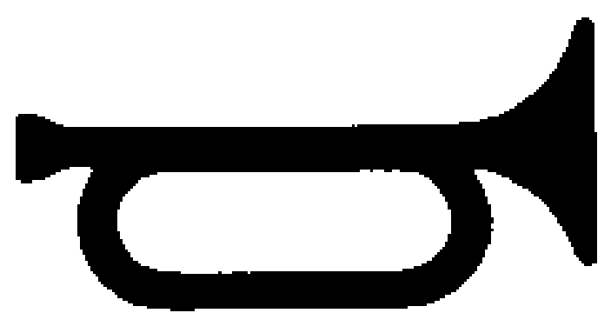


IMPLEMENT MOVEMENT


CIGAR LIGHTER

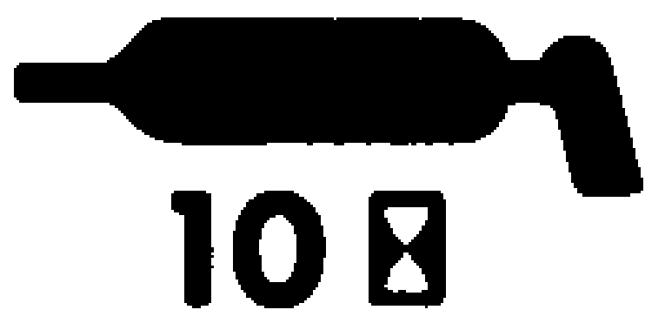

HORN

L (LOAD)

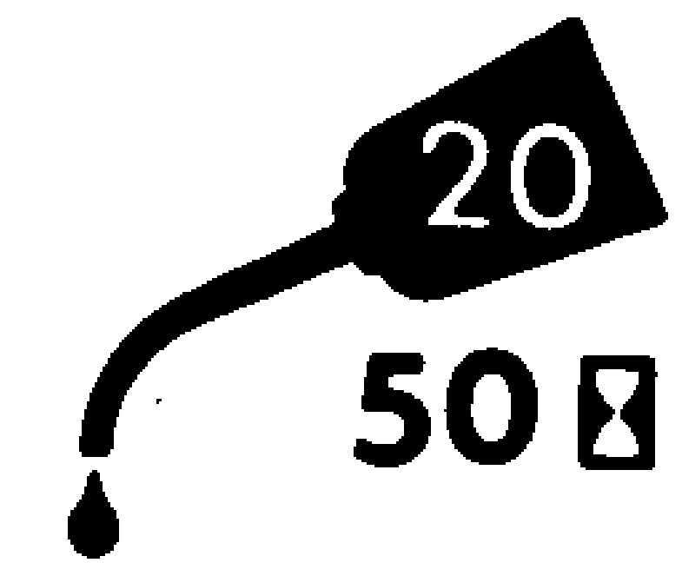
LD (LOAD AND DEPTH)

D (DEPTH)

ROCKSHAFT LOAD AND DEPTH CONTROL



GREASE FREQUENCY

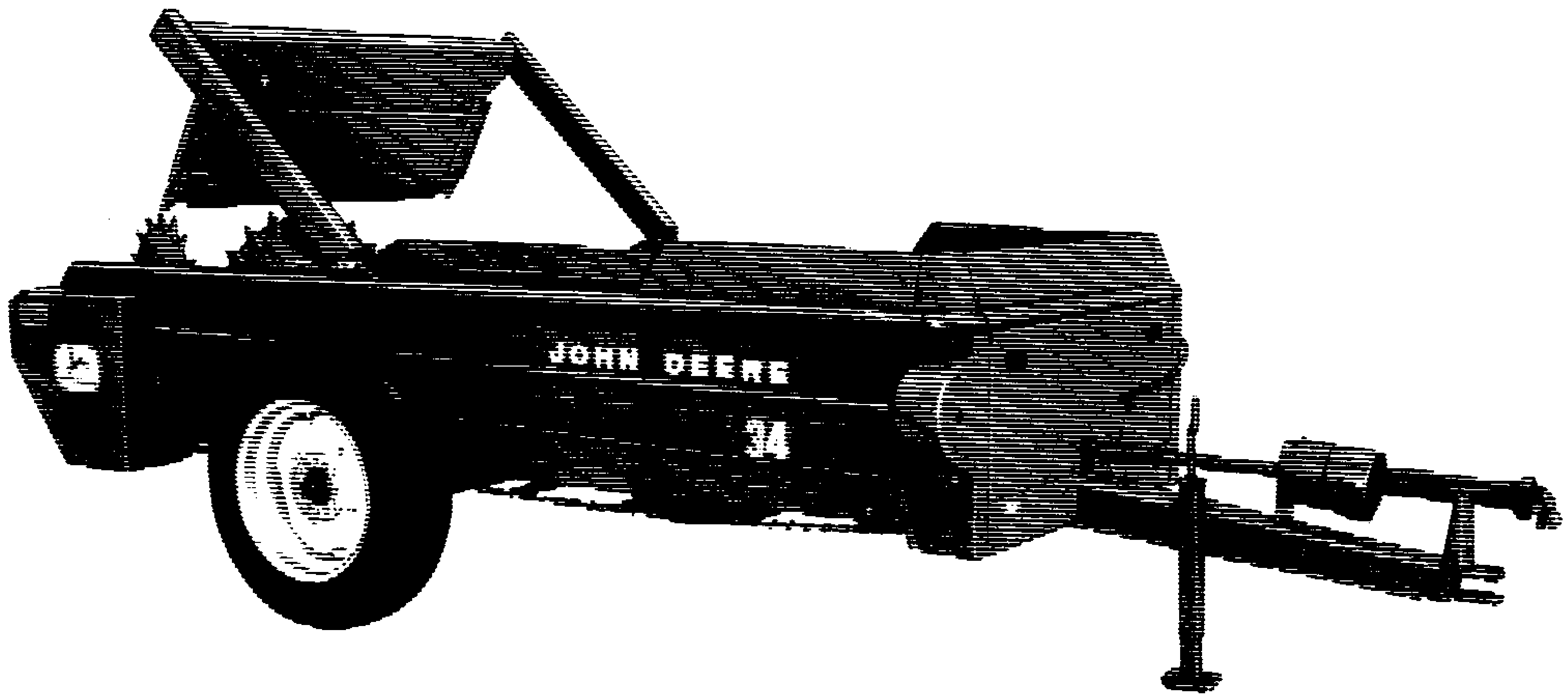


OIL TYPE AND FREQUENCY

Parts Catalog

PC-1089

34 Spreader



NOTE
This is a completely revised parts catalog. Discard the old catalog and insert this revision in its place.

NOTA
Esta es una revisión completa del catálogo de piezas. Destruya su catálogo anterior e inserte esta revisión en su lugar.

ANMERKUNG
Diese Ersatzteilliste ist vollständig neu bearbeitet. Die alte Ersatzteilliste ist fortzuwerfen und an ihre Stelle die Neu-Ausgabe zu setzen.

NOTE
Voici un catalogue de pièces de rechange complètement révisé. Jetez l'ancien catalogue et mettez à sa place ce catalogue révisé.

Litho in U.S.A. (E)

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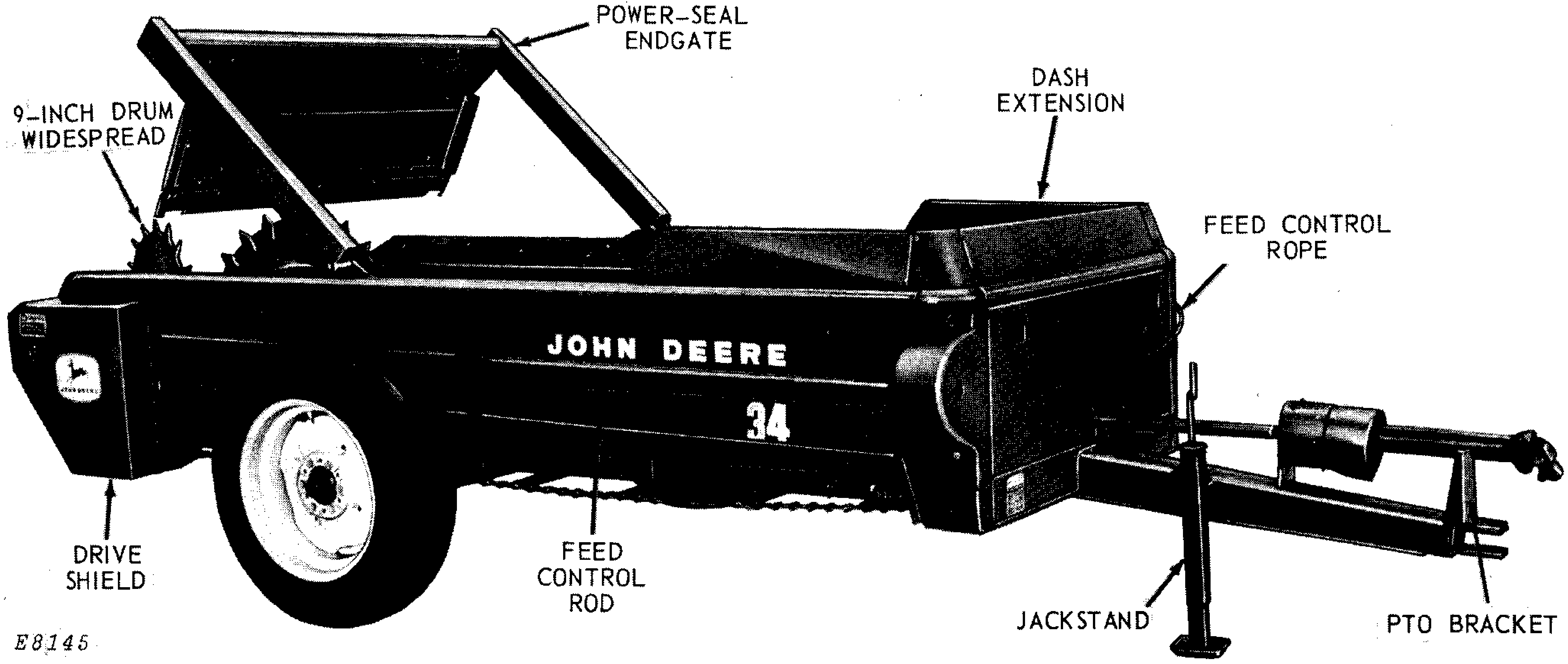
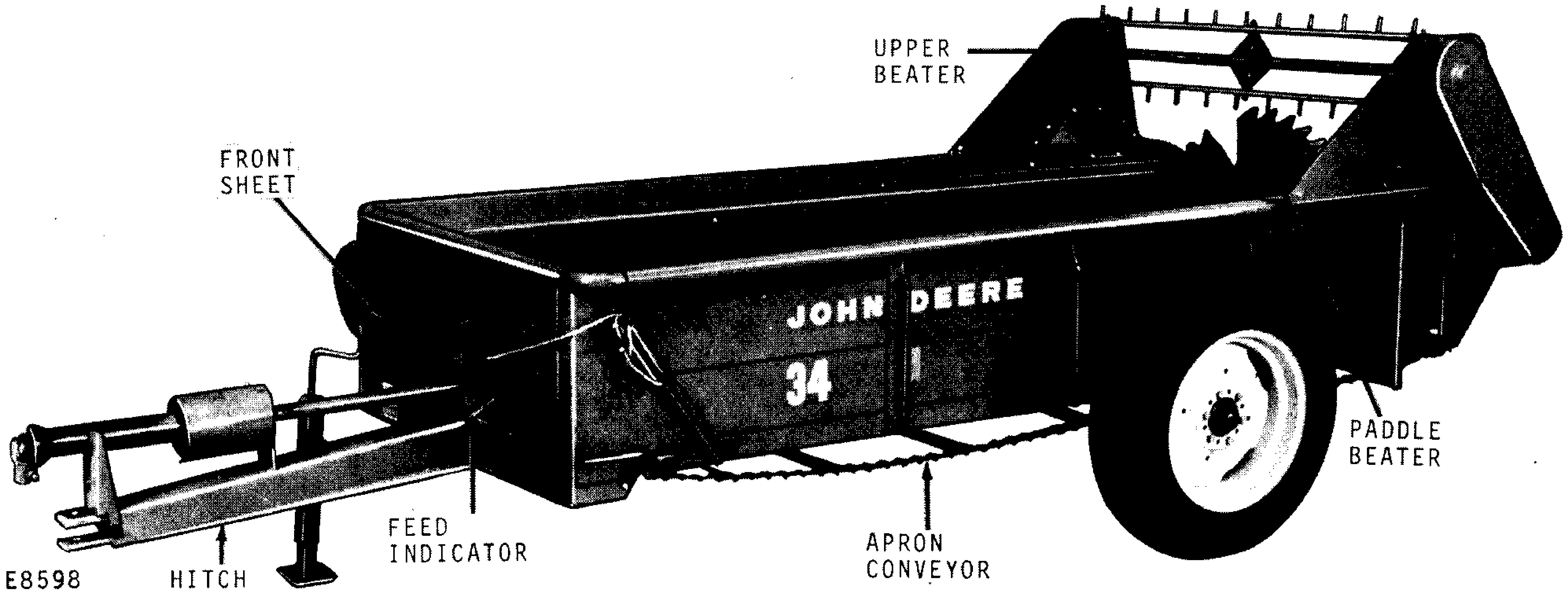


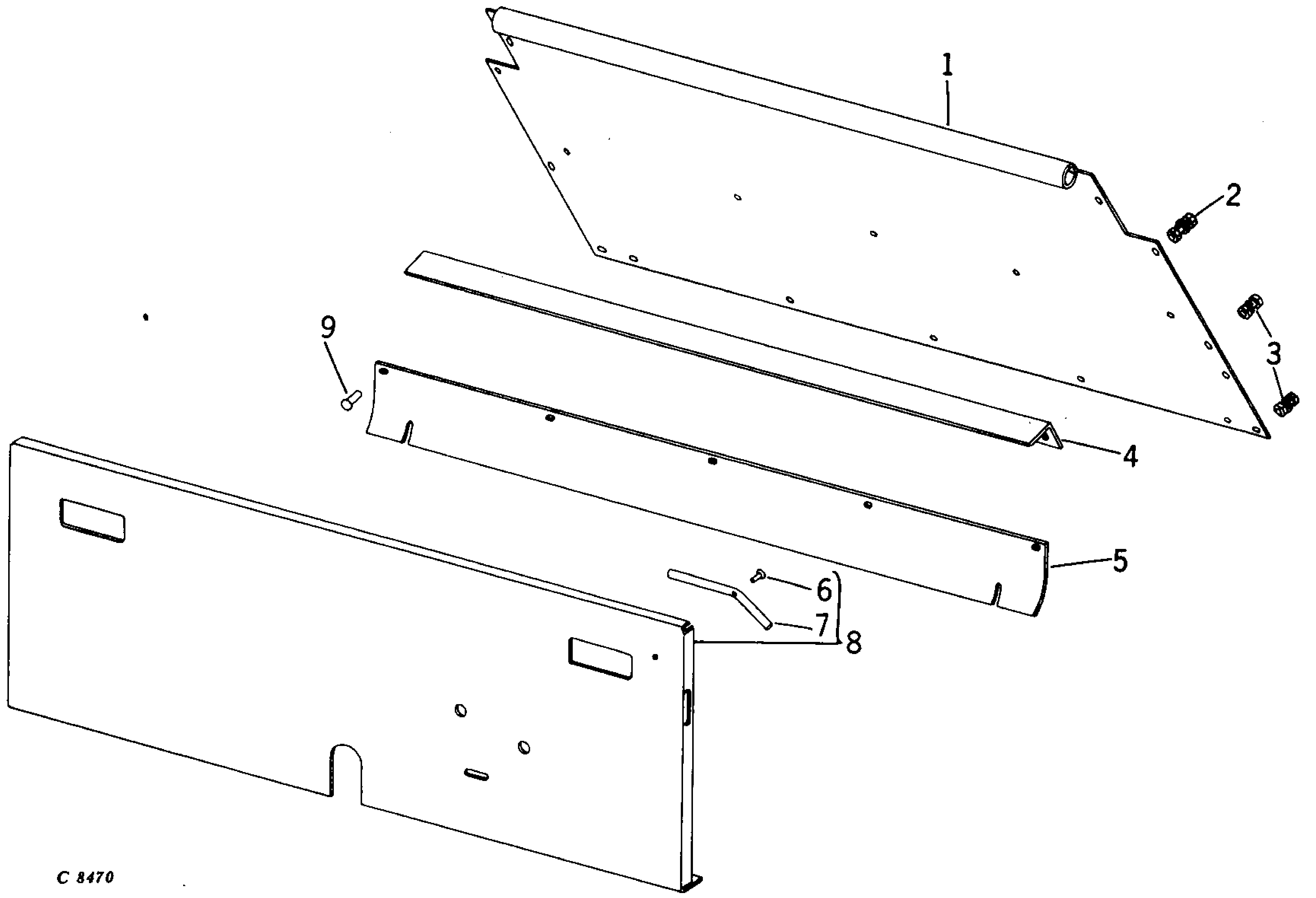
John Deere 34 Spreader with 9-Inch Drum Beater Widespread and Power-Seal Endgate



John Deere 34 Spreader with Paddle Beater and Upper Beater
(Manufactured 1967-   )

(Specifications and design subject to change without notice.)

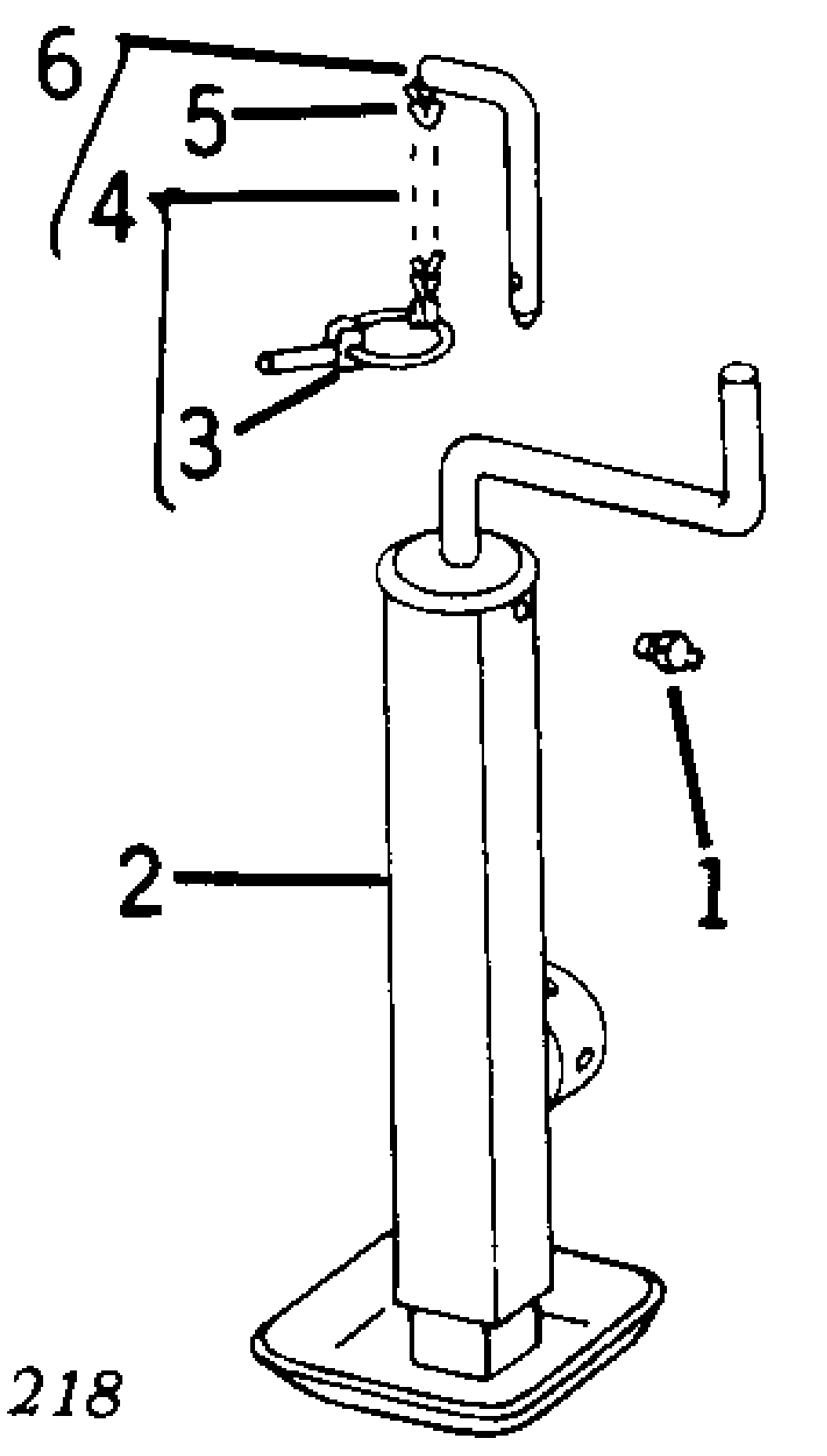
DASH AND FRONT SHEET



C 8470

Key	Part No.	Serial No.	Description
1	C 18831	(-)	Dash
2	19H 1813	(-)	Screw, cap, 5/16" x 5/8" (5 used)
	12H 303	(-)	Washer, lock, 5/16"
	14H 785	(-)	Nut, 5/16"
3	19H 1731	(-)	Screw, cap, 3/8" x 1" (10 used)
	12H 304	(-)	Washer, lock, 3/8"
	14H 812	(-)	Nut, 3/8"
4	C 18832	(-)	Angle, dash
5	C 18861	(-)	Flap
6	16H 115	(-)	Rivet, btn., hd., 1/8" x 5/8" (2 used)
7	C 18846	(-)	Latch, front sheet (2 used)
8	AC 15378	(-)	Sheet, front with latch (sub. for C18838)
9	16H 1092	(-)	Rivet, btn. hd., 5/16" x 3/4" (5 used)

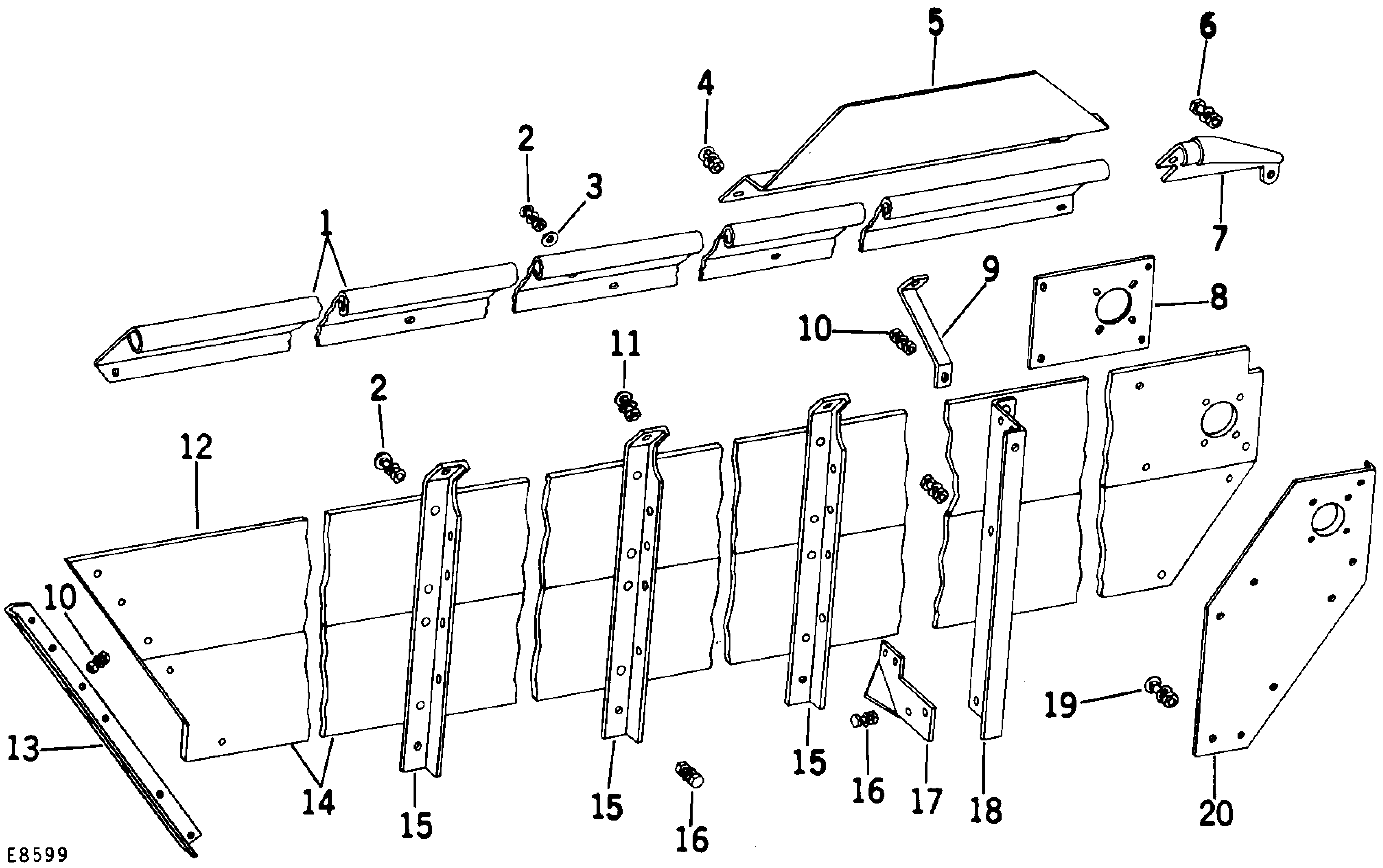
JACK STAND



C6218

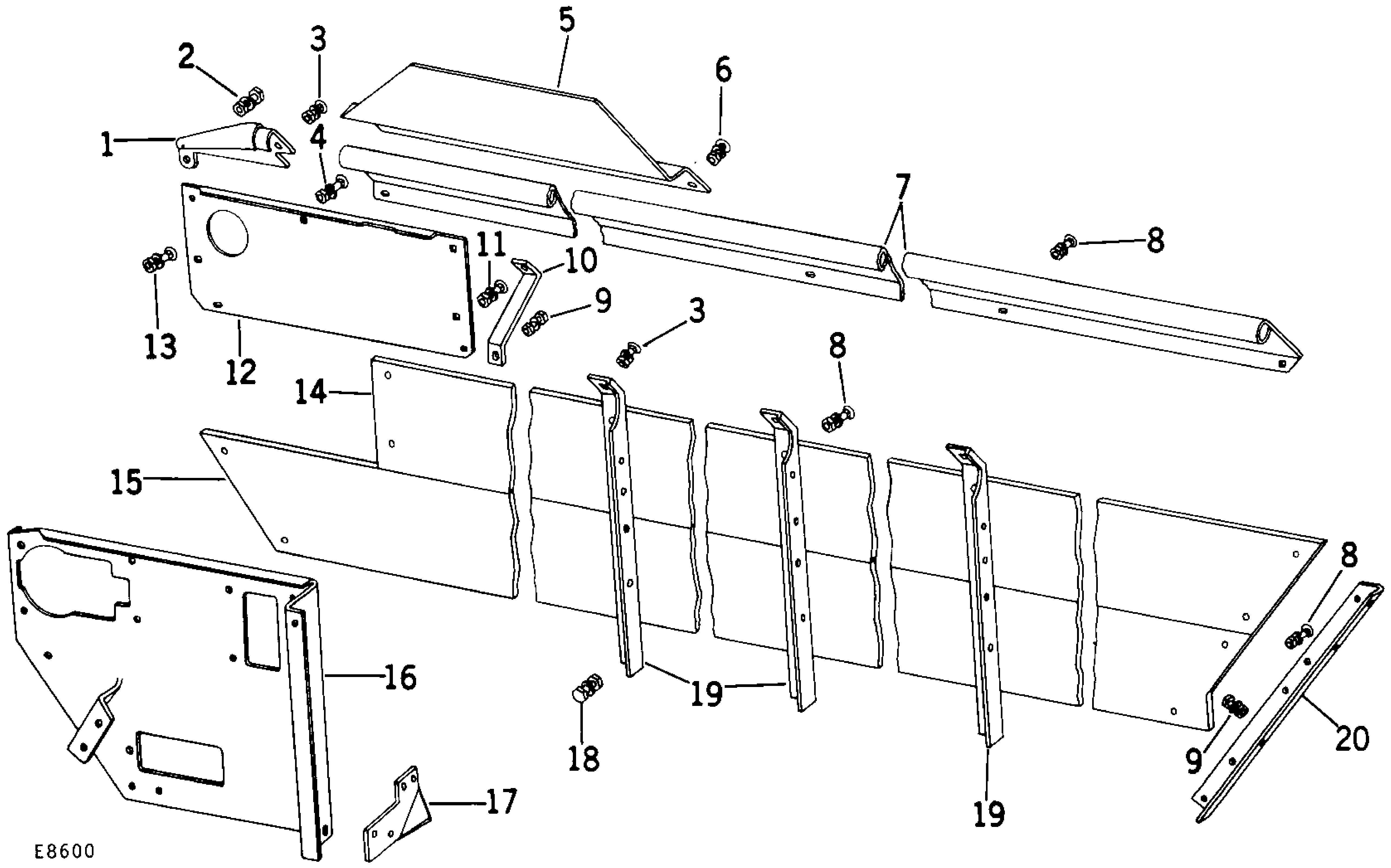
Key	Part No.	Serial No.	Description
1	JD 7765	(-)	Fitting, grease, straight, 3/16"
2	AC 15349	(-)	Stand, jack
3	B 11182	(-)	Pin, quick lock
4	AC 14863	(-)	Chain, with quick lock pin
5	37H 92	(-)	Screw, drive, no. 12 x 1/2", type "U"
6	AC 14488	(-)	Pin assembly

LEFT SIDE



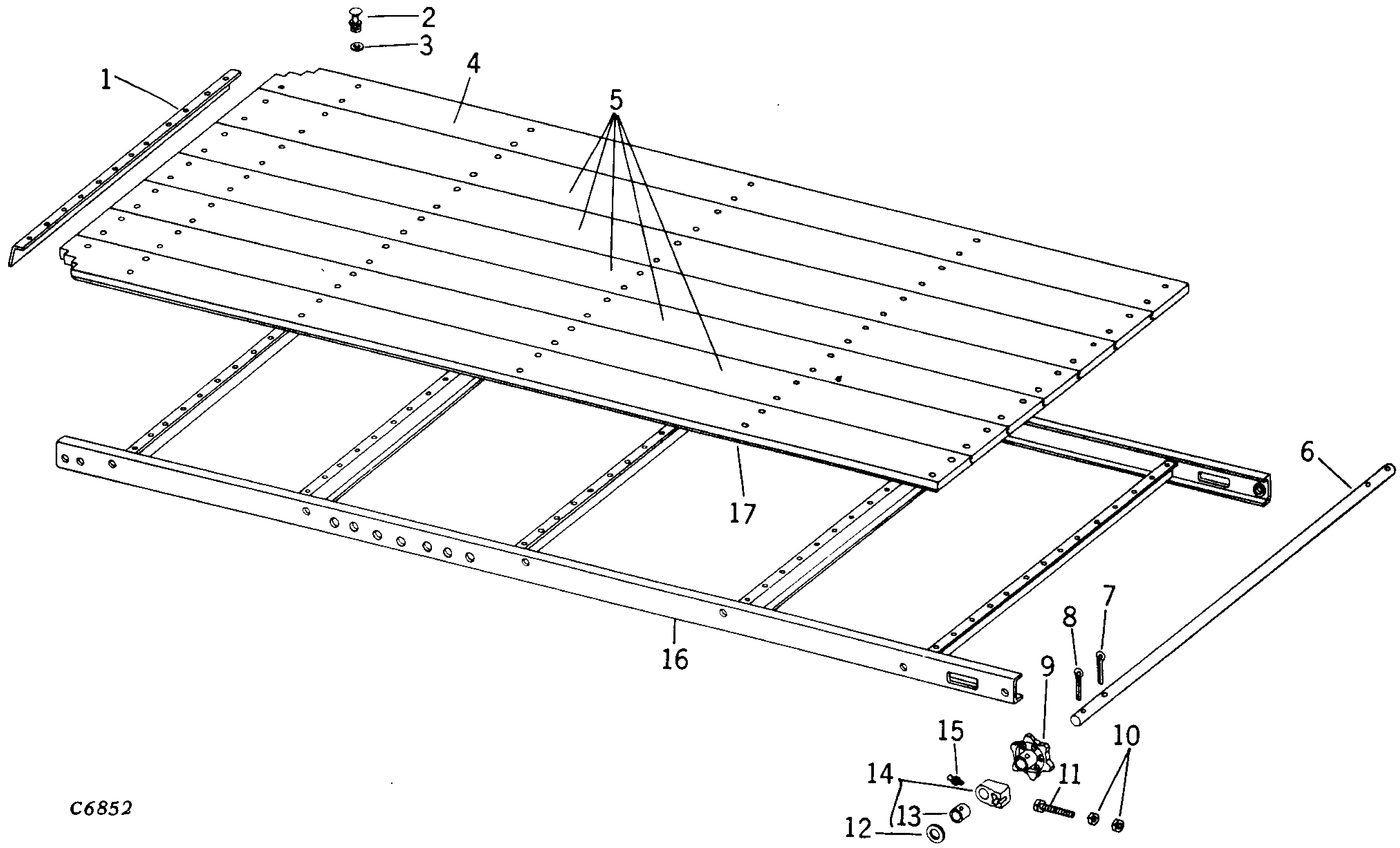
Key	Part No.		Serial No.	Description
1	C	18703	- 10500	Sub. E50647
	E	50647	10501 -	Flare, side, left
2	3H	1558	-	Bolt, cge., 3/8" x 1-1/2" (19 used)
	12H	304	-	Washer, lock, 3/8"
	14H	812	-	Nut, 3/8"
3	24H	1219	-	Washer, 7/16" x 1" x .075" (5 used)
4	3H	1463	-	Bolt, cge., 3/8" x 3/4" (3 used)
	12H	304	-	Washer, lock, 3/8"
	14H	812	-	Nut, 3/8"
5	C	18728	-	Shield, beater
6	19H	1800	-	Screw, cap, 3/8" x 1-1/2"
	12H	304	-	Washer, lock, 3/8"
	14H	812	-	Nut, 3/8"
7	C	18712	-	Corner, rear
8	C	18710	-	Plate, bearing retainer
9	C	19039	-	Strap, flare
10	19H	1731	-	Screw, cap, 3/8" x 1"
	12H	304	-	Washer, lock, 3/8"
	14H	812	-	Nut, 3/8"
11	3H	1519	-	Bolt, cge., 3/8" x 1" (5 used)
	12H	304	-	Washer, lock, 3/8"
	14H	812	-	Nut, 3/8"
12	C	18704	- 10500	Sub. E50653
	E	50653	10501 -	Board, side, top
13	C	18701	- 9200	Sub. C20123
	C	20123	9201 -	Angle, side, front
14	C	18702	-	Board, side, bottom
15	C	18709	- 10500	Sub. E50650
	C	18705	- 10500	Sub. E50650
	E	50650	10501 -	Brace, side (3 used)
16	19H	1792	-	Screw, cap, 1/2" x 1" (9 used)
	12H	301	-	Washer, 1/2"
	14H	809	-	Nut, 1/2"
17	C	18797	- 10500	Sub. R50469
	E	50469	10501 -	Reinforcement, rear brace, right
18	C	19041	- 10500	Brace, upper beater, left
	E	50527	10501 -	Brace, upper beater, left
19	3H	1544	-	Bolt, cge., 5/16" x 1-1/4" (3 used)
	12H	303	-	Washer, lock, 5/16"
	14H	785	-	Nut, 5/16"
20	C	18706	- 9200	Sub. AE28633
	AE	28633	9201 -	Plate, left end tie
21	3H	1825	-	Bolt, cge., 5/16" x 1-1/2" (9 used)
	12H	303	-	Washer, lock, 5/16"
	14H	785	-	Nut, 5/16"

RIGHT SIDE



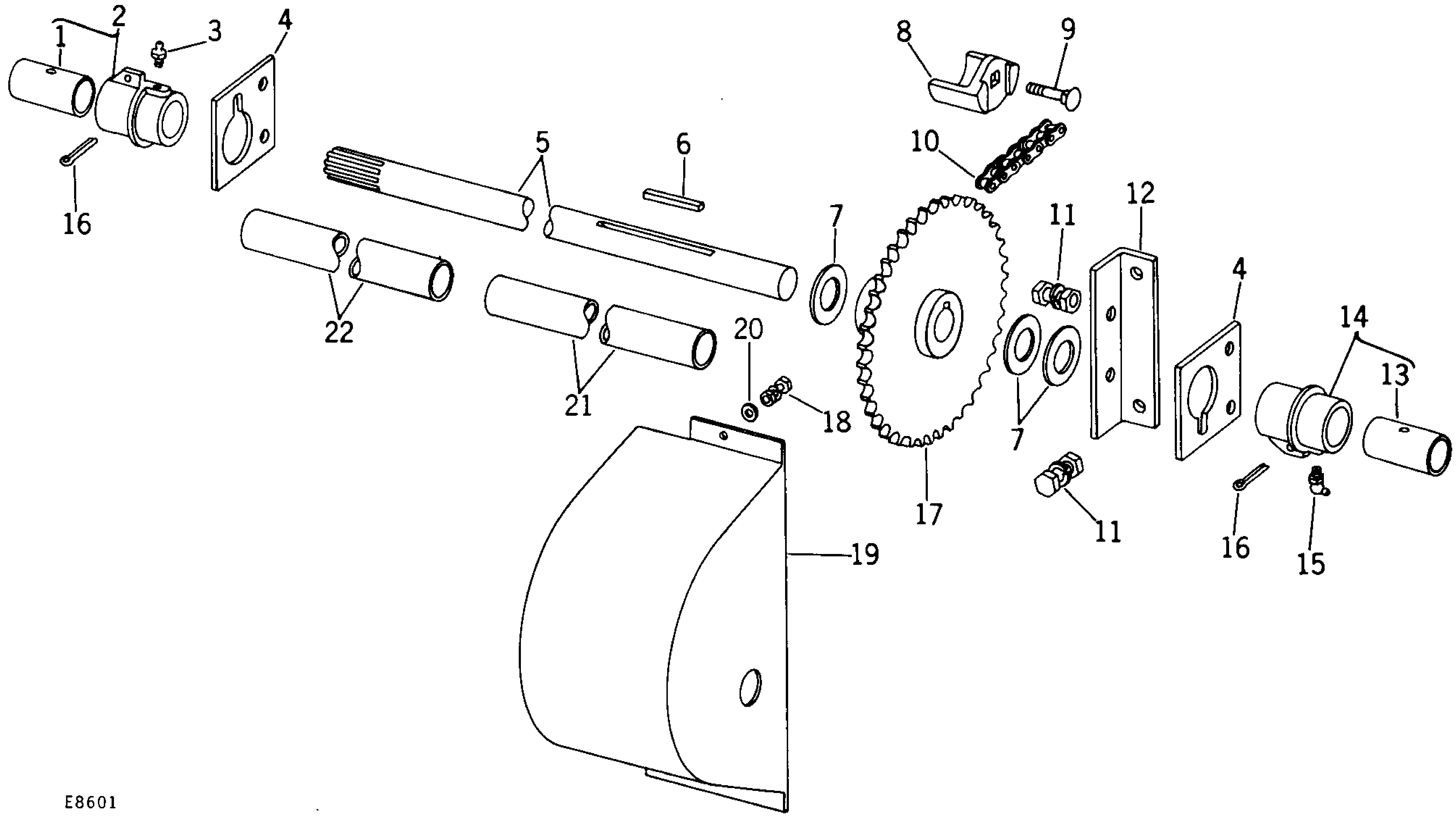
Key	Part No.	Serial No.	Description
1	C 18800	-	Corner, right rear
2	19H 1726	-	Screw, cap, 3/8" x 2-1/4"
	12H 304	-	Washer, lock, 3/8"
	14H 812	-	Nut, 3/8"
3	3H 1519	-	Bolt, cge., 3/8" x 1" (5 used)
	12H 304	-	Washer, lock, 3/8"
	14H 812	-	Nut, 3/8"
4	3H 1593	-	Bolt, cge., 1/2" x 2-1/2"
	12H 301	-	Washer, lock, 1/2"
	14H 809	-	Nut, 1/2"
5	C 18728	-	Shield, beater
6	3H 1463	-	Bolt, cge., 3/8" x 3/4" (3 used)
	12H 304	-	Washer, lock, 3/8"
	14H 812	-	Nut, 3/8"
7	C 18789	- 10500	Sub. E50646
	E 50646	10501 -	Flare
8	3H 1558	-	Bolt, cge., 3/8" x 1-1/2" (13 used)
	12H 304	-	Washer, lock, 3/8"
	14H 812	-	Nut, 3/8"
9	19H 1731	-	Screw, cap, 3/8" x 1" (4 used)
	12H 304	-	Washer, lock, 3/8"
	14H 812	-	Nut, 3/8"
10	C 19039	-	Strap, flare
11	3H 1544	-	Screw, cap, 5/16" x 1-1/4" (2 used)
	12H 303	-	Washer, lock, 5/16"
	14H 785	-	Nut, 5/16"
12	C 18791	-	Plate, inner
13	3H 1658	-	Bolt, cge., 3/8" x 2-1/4"
	12H 304	-	Washer, lock, 3/8"
	14H 812	-	Nut, 3/8"
14	C 18790	- 10500	Sub. E50652
	E 50652	10501 -	Board, upper
15	C 18702	-	Board, bottom
16	AC 15348	- 10500	Plate, drive, mount
	AE 30008	10501 -	Plate, drive, mount
17	C 18796	- 10500	Sub. E50468
	E 50468	-	Reinforcement, rear
18	19H 1792	-	Screw, cap, 1/2" x 1" (9 used)
	12H 301	-	Washer, lock, 1/2"
	14H 809	-	Nut, 1/2"
19	C 18705	- 10500	Sub. E50650
	C 18709	- 10500	Sub. E50650
	E 50650	10501 -	Brace, side (3 used)
20	C 18788	- 10500	Sub. C20122
	C 20122	10501 -	Angle, front

BED AND FRONT IDLER SHAFT



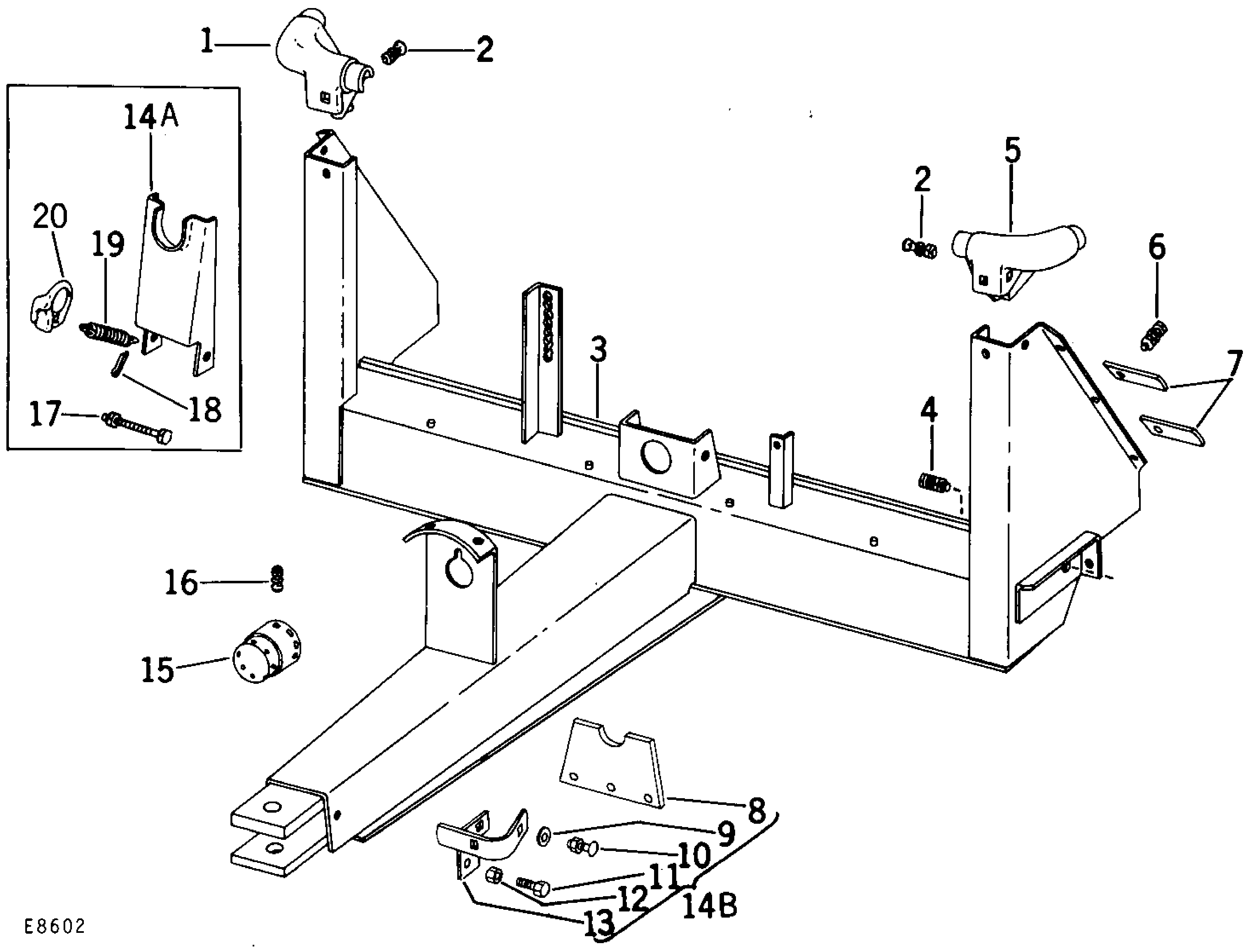
Key	Part No.	Serial No.	Description
1	C 18700	(-)	Scraper, rear shaft
2	3H 1825	(-)	Bolt, cge., 5/16" x 1-1/2" (82 used)
	14H 785	(-)	Nut, 5/16"
	12H 303	(-)	Washer, lock, 5/16"
3	24H 1293	(-)	Washer, 11/32" x 1-1/16" x .120" (12 used)
4	C 18691	(-)	Board, left
5	C 18689	(-)	Board, center (5 used)
6	C 18687	(-)	Shaft, front idler
7	11H 809	(-)	Pin, cotter, 1/4" x 2" (2 used)
8	11H 215	(-)	Pin, cotter, 1/4" x 1-1/2" (2 used)
9	C 18686	(-)	Sprocket, 6-tooth (2 used)
10	14H 809	(-)	Nut, 1/2" (4 used)
11	19H 2062	(-)	Screw, cap, 1/2" x 4" (2 used)
12	24H 1462	(-)	Washer, 1-1/16" x 1-1/2" x .060" (2 used)
13	C 13236	(-)	Bushing (2 used)
14	AC 15326	(-)	Housing, bearing (sub. for C18688) (2 used)
15	JD 7797	(-)	Fitting, grease, straight, 1/4" (2 used)
16	AC 15314	(- 10500)	Sub. AE30005, E50468, and E50469
	AE 30005	(10501 -)	Bed and sills (includes all boards)
17	C 18690	(-)	Board, right

SIDE SHAFT AND MAIN DRIVE CHAIN



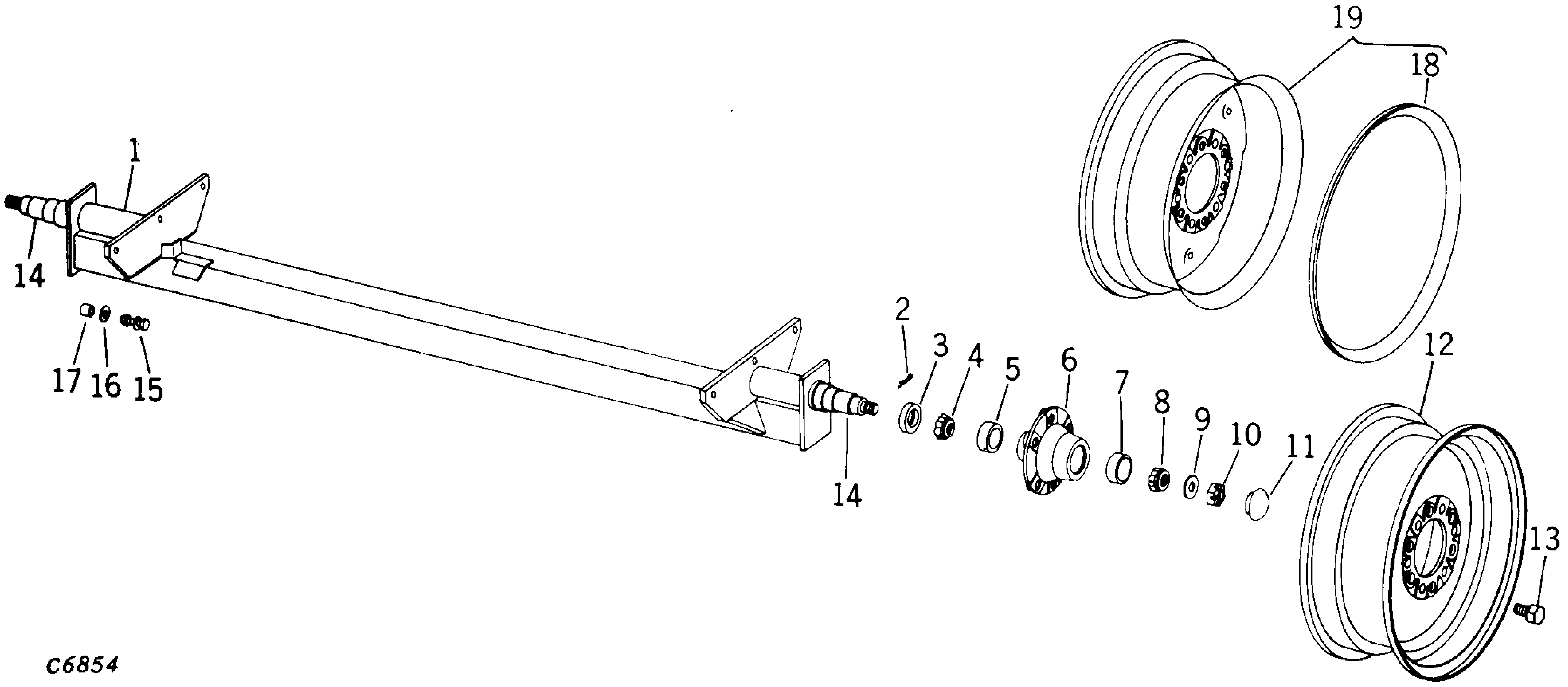
Key	Part No.	Serial No.	Description
1	L 1814 C	(-)	Bushing
2	AC 14983	(-)	Bearing (sub. for C17854 at center of spreader only)
3	JD 7769	(-)	Fitting, grease, straight, 1/4"
4	C 18792	(-)	Bracket, bearing (2 used)
5	C 18793	(-)	Shaft, side
6	X 6600 C	(-)	Key, taper
7	C 11141	(-)	Washer, 1-9/32" x 2-7/32" x.060" (3 used)
8	C 16549	(-)	Block, take-up
9	3H 1731	(-)	Bolt, cge., 1/2" x 1-1/2" (3 used)
	12H 301	(-)	Washer, lock, 1/2"
	14H 809	(-)	Nut, 1/2" (2 used)
10	... .	(-)	Chain, roller, main drive, 540 rpm, type 60, 3/4" pitch, 111 links (assemble 109 riveted links from ten foot roll AP22460, one offset link B5321H and one coupler link B5235H)
	... .	(-)	Chain, roller, main drive, 1000 rpm, type 60, 3/4" pitch, 94 links (assemble 93 riveted links from ten foot roll AP22460, and one coupler link B5235H)
11	19H 1731	(-)	Screw, cap, 3/8" x 1" (2 used)
	12H 304	(-)	Washer, lock, 3/8"
	14H 812	(-)	Nut, 3/8"
12	C 18904	(-)	Mount, bearing bracket
13	C 13031	(-)	Bushing
14	AC 15359	(-)	Bearing (sub. for C17854 at front of spreader only)
15	JD 7806	(-)	Fitting, grease, 90°
16	11H 248	(-)	Pin, cotter, 1/4" x 1" (2 used)
17	C 18798	(- 10500)	Sub. AE29936
	AE 29936	(10501 -)	Sprocket, 39-tooth
18	19H 1948	(-)	Screw, cap, 1/4" x 3/4" (2 used)
	12H 302	(-)	Washer, lock, 1/4"
	14H 786	(-)	Nut, 1/4"
19	AC 15368	(-)	Guard, sprocket
20	24H 1136	(-)	Washer, 11/32" x 11/16" x .060"
21	AC 15874	(-)	Guard, front (sub. for C18794)
22	AC 15870	(-)	Guard, rear (sub. for C18795)

HITCH, PTO SHIELD AND SUPPORT



Key	Part No.	Serial No.	Description
1	C 18827	(- 10500)	Sub. E50656
	E 50656	(10501 -)	Corner, flare, right
2	3H 1519	(-)	Bolt, cge., 3/8″ x 1″ (8 used)
	12H 304	(-)	Washer, lock, 3/8″
	14H 812	(-)	Nut, 3/8″
3	AC 15377	(- 10500)	Sub. AE30106
	AE 30106	(10501 -)	Hitch
4	19H 1798	(-)	Screw, cap, 3/4″ x 1-3/4″ (2 used)
	12H 236	(-)	Washer, lock, 3/4″
	14H 794	(-)	Nut, 3/4″
5	C 18828	(- 10500)	Sub. E50657
	E 50657	(10501 -)	Corner, flare, left
6	19H 1731	(-)	Screw, cap, 3/8″ x 1″ (6 used)
	12H 304	(-)	Washer, lock 3/8″
	14H 812	(-)	Nut, 3/8″
7	C 19068	(-)	Hanger, rope (2 used)
8	E 51950	(10501 -)	Support, PTO
9	24H 1219	(10501 -)	Washer, 7/16″ x 1″ x .075″ (3 used)
10	3H 1519	(10501 -)	Bolt, cge., 3/8″ x 1″ (3 used)
	14H 812	(10501 -)	Nut, 3/8″
11	19H 1800	(10501 -)	Screw, cap, 3/8″ x 1-1/2″
12	U 13184	(10501 -)	Nut, stop, 3/8″
13	AE 30834	(10501 -)	Bracket, PTO support
14A	C 18927	(- 10500)	Sub. AE30835
14B	AE 30835	(10501 -)	Support, PTO, complete
15	AC 15088	(- 9200)	Sub. AE29166
	AE 29166	(9201 -)	Shield, PTO, (Sub. for C18100 or AC15370)
16	3H 1540	(9201 -)	Bolt, cge., 5/16″ x 3/4″ (2 used)
	12H 303	(9201 -)	Washer, lock, 5/16″
	14H 785	(9201 -)	Nut, 5/16″
17	19H 2345	(-)	Screw, cap, 3/8″ x 5-1/2″
	BP 12233	(- 10500)	Sub. U13184 (this application only)
	U 13184	(10501 -)	Nut, special, 3/8″
18	11H 216	(- 10500)	Pin, cotter, 3/16″ x 1″
19	L 1024 C	(- 10500)	Spring, tension
20	C 18928	(- 10500)	Handle, spring

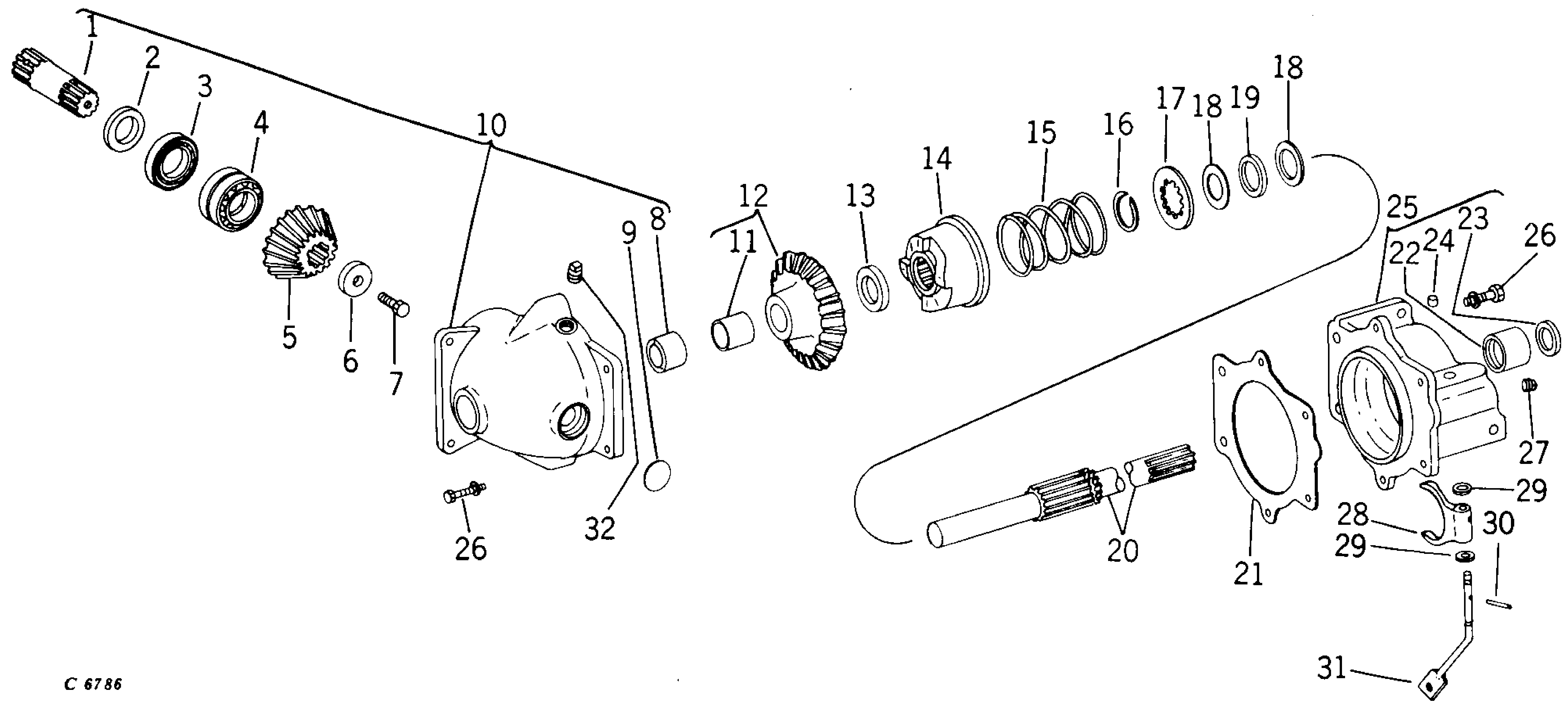
WHEELS AND AXLES



C6854

Key	Part No.	Serial No.	Description
1	AC 15310	(-)	Axle
2	11H 218	(-)	Pin, cotter, 3/16" x 1-1/2" (2 used)
3	C 19540	(-)	Seal, grease (sub. for C16692)
4	JD 9008	(-)	Cone
5	JD 8271	(-)	Cup
6	D 10024	(-)	Hub (2 used)
7	JD 8225	(-)	Cup (2 used)
8	JD 8187	(-)	Cone (2 used)
9	D 10134	(-)	Washer (2 used)
10	14H 902	(-)	Nut, slotted, 3/4" (2 used)
11	D 10025	(-)	Cap, hub (2 used)
12	JD 584	(-)	Wheel, disk, 20" (for 7:50 - 20 tire) (2 used)
13	JD 16	(-)	Bolt, hub, 9/16" (12 used)
14	C 18683	(-)	Spindle, wheel, 2" (2 used)
15	19H 1831	(-)	Screw, cap, 1/2" x 2" (6 used)
	12H 301	(-)	Washer, lock, 1/2"
	14H 809	(-)	Nut, 1/2"
16	24H 1211	(-)	Washer, 9/16" x 1-3/8" x .105" (6 used)
17	28H 2514	(-)	Spacer (6 used)
18	C 15070	(-)	Ring, side (2 used)
19	JD 585	(-)	Wheel, disk, with demountable side ring (for 20" truck and bus tires) (2 used)

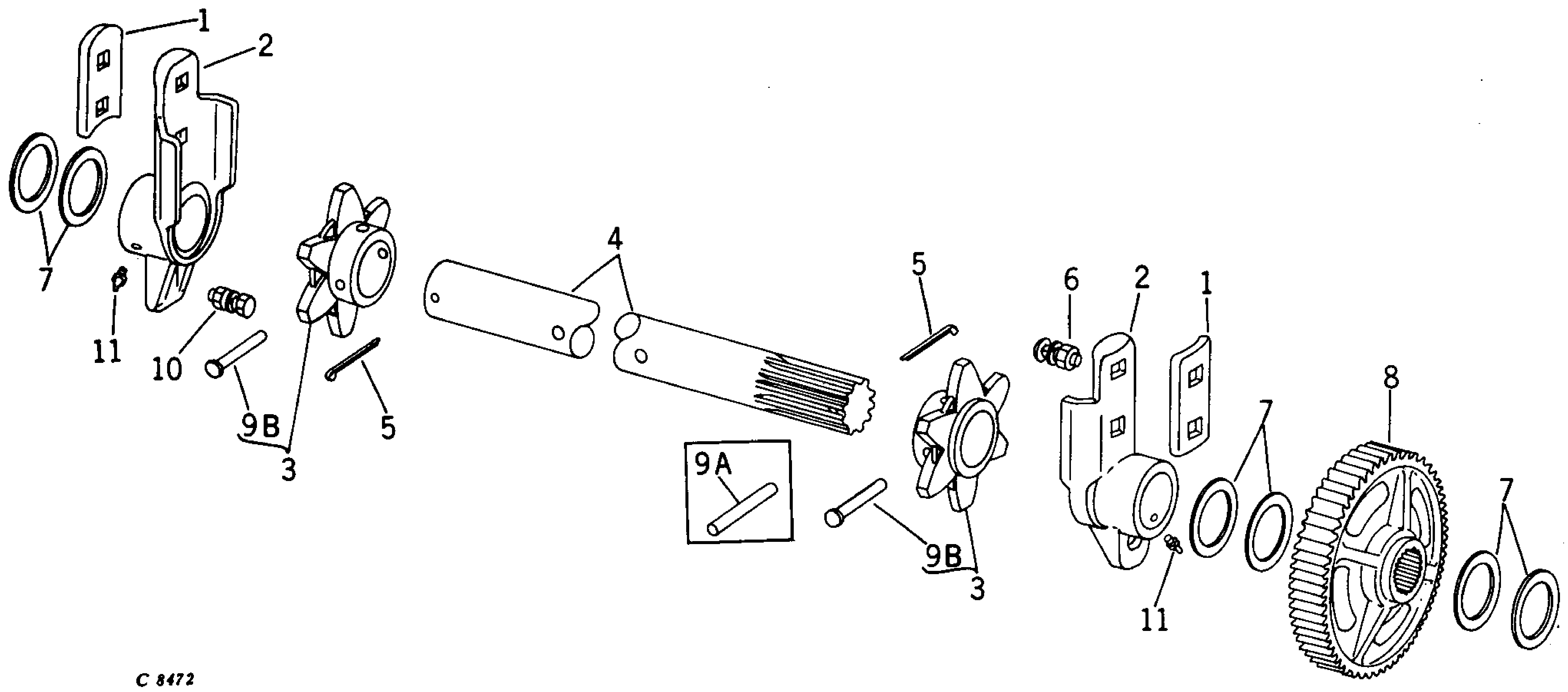
GEAR CASE



C 6786

Key	Part No.	Serial No.	Description
1	C 18770	(-)	Shaft, beater drive
2	C 18766	(-)	Spacer
3	AN 70684	(-)	Seal
4	AC 15342	(-)	Bearing, output shaft
5	C 19091	(-)	Gear, bevel, 18-tooth
6	C 15594	(-)	Washer
7	C 19083	(-)	Screw, cap, locking, 1/2″ x 1″
8	JD 8884	(-)	Bearing, needle
9	30H 21	(-)	Plug, expansion
10	AC 15135	(-)	Case, gear (sub. for C18767)
11	C 13014	(-)	Bushing
12	AC 15492	(-)	Gear, bevel, 26-tooth
13	C 18905	(-)	Washer, thrust
14	C 18906	(-)	Clutch, sliding
15	C 12948	(-)	Spring, beater clutch
16	C 3142 E	(-)	Ring, snap
17	C 18907	(- 9200)	Sub. E48453
	E 48453	(9201 -)	Washer, splined
18	C 10520	(-)	Washer, thrust (2 used)
19	JD 8841	(-)	Bearing, needle
20	C 18768	(-)	Shaft, input
21	C 13027	(- 9200)	Sub. E49557
	E 49557	(9201 -)	Shim, .010″
	C 13028	(- 9200)	Sub. E49558
	E 49558	(9201 -)	Shim, .030″ (use as required)
22	JD 8897	(- 9200)	Sub. JD9871 (this application only)
	JD 9871	(9201 -)	Bearing, needle
23	C 10519	(-)	Seal, oil
24	L 1661 C	(-)	Plug, filter
25	AC 15079	(-)	Housing, front (sub. for C18769)
26	19H 1732	(-)	Screw, cap, 3/8″ x 1-1/4″ (6 used)
	12H 304	(-)	Washer, lock, 3/8″ (6 used)
27	15H 584	(-)	Plug, pipe, 1/2″
28	C 13012	(-)	Fork, clutch
29	P 46051	(-)	O-ring (2 used)
30	34H 83	(-)	Pin, spring
31	C 18772	(-)	Arm, declutching
32	15H 238	(-)	Plug, pipe, 3/4″

REAR CONVEYOR SHAFT



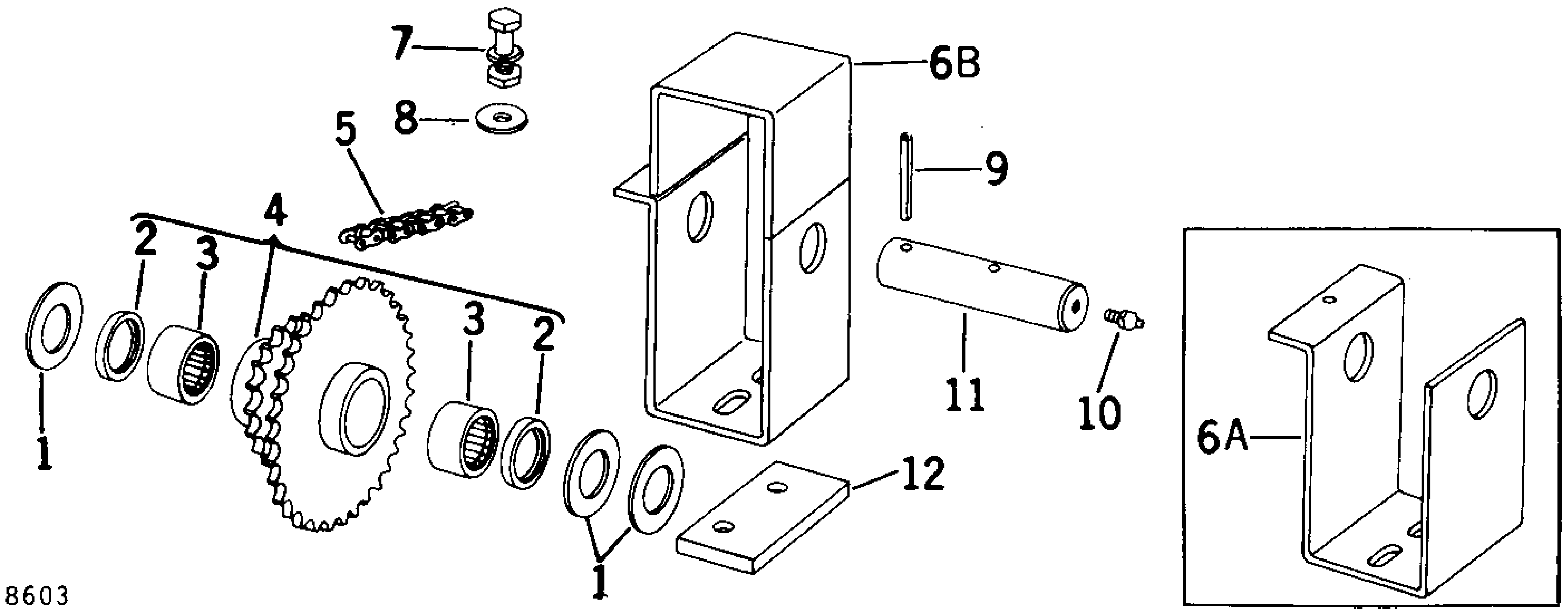
C 8472

Key	Part No.	Serial No.	Description
1	C 18698	(-)	Shim, aligning (2 used)
2	C 18697	(-)	Bearing (2 used)
3	AC 15651	(-)	Sprocket, drive, 6-tooth, (with pin) (sub. for C17880 and C19347) (2 used)
4	C 18699	(-)	Shaft, conveyor
5	11H 209	(-)	Pin, cotter, 5/16″ x 2-3/4″ (2 used)
6	3H 1439	(-)	Bolt, cge., 1/2″ x 1-3/4″ (4 used)
	12H 301	(-)	Washer, lock, 1/2″
	14H 809	(-)	Nut, 1/2″
7	24H 1683	(-)	Washer, 2-1/32″ x 2-3/4″ x .060″ (6 used)
8	C 18775	(-)	Ratchet, 72-tooth
9A	C 17902	(-)	Pin, 1/2″ x 3″ (use with C17880 sprocket) (2 used)
9B	C 19119	(-)	Pin, sprocket drive, ctsk. hd. (use with C19347 sprocket)
10	19H 1813	(-)	Screw, cap, 1/2″ x 1-1/4″ (2 used)
	12H 301	(-)	Washer, lock, 1/2″
	14H 809	(-)	Nut, 1/2″
11	JD 7797	(-)	Fitting, grease, straight, 1/4″ (2 used)

DECALCOMANIA SET

Key	Part No.	Serial No.	Description
..	AC 15393	(- -)	Decalcomania kit consisting of: "JOHN DEERE" (1-1/2″ letters) on both sides, in front of wheels "MODEL DESIGNATION" on both sides and under "JOHN DEERE" decal "CAUTION" on R.H. front of hitch "LEAPING DEERE" centered on rear drive shield

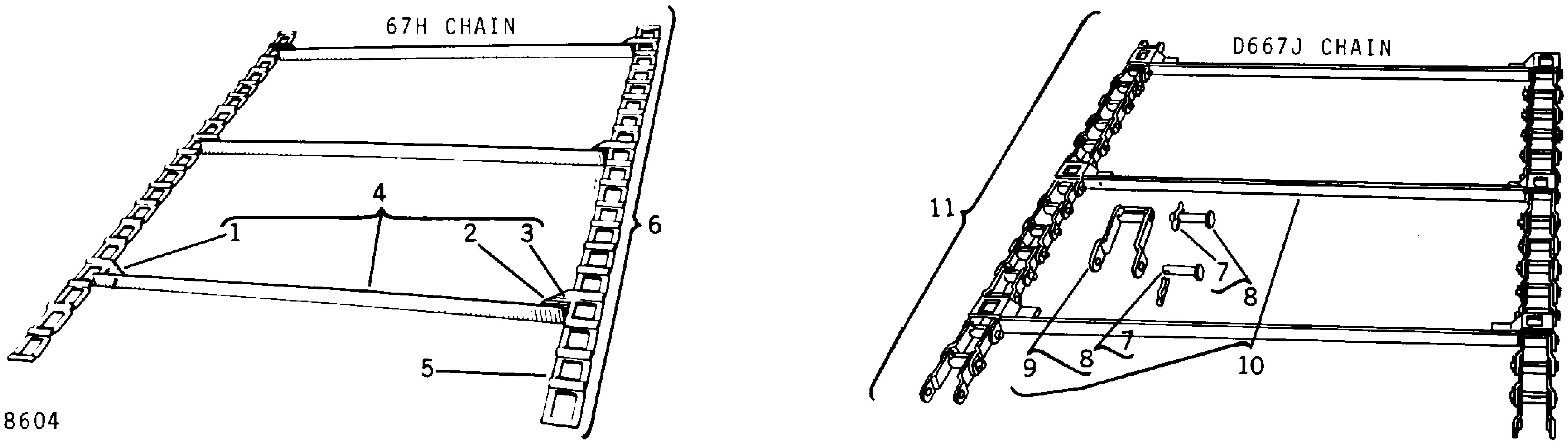
COUNTERSHAFT AND SPROCKET (1000 RPM)



E8603

Key	Part No.	Serial No.	Description
1	24H 1217	(-)	Washer, 1-1/4" x 2-1/4" x .060" (4 used)
2	C 10519	(-)	Seal, oil (2 used)
3	JD 8832	(-)	Bearing, needle (2 used)
4	AC 15362	(-)	Sprocket, countershaft, 15-tooth and 32-tooth
5	... .	(-)	Chain, roller, countershaft sprocket, type 50, 46 links (assemble 45 riveted links from ten foot roll AP22459, and one coupler link P20351)
6A	C 18812	(- 9200)	Bracket, sprocket
6B	AE 30000	(9201 -)	Bracket, sprocket
7	19H 1721	(-)	Screw, cap, 1/2" x 1-1/2" (2 used)
	12H 301	(-)	Washer, lock, 1/2"
	14H 809	(-)	Nut, 1/2"
8	24H 1211	(-)	Washer, 9/16" x 1-3/8" x .105" (2 used)
9	34H 110	(-)	Pin, spring, 1/4" x 2-1/4"
10	JD 7759	(-)	Fitting, grease, straight, 1/8"
11	C 18813	(-)	Shaft, counter
12	C 18814	(-)	Spacer

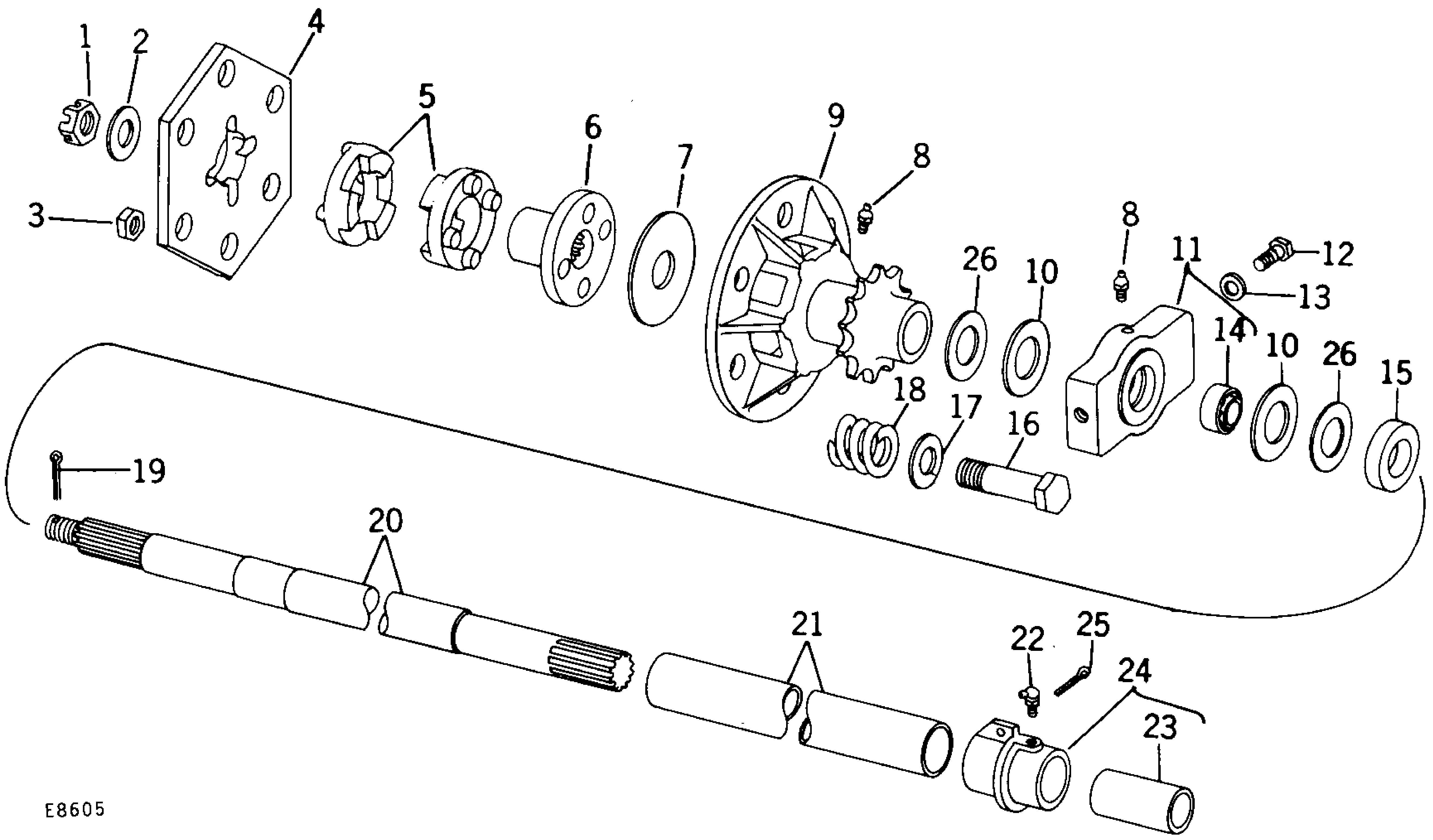
CONVEYOR CHAIN



E8604

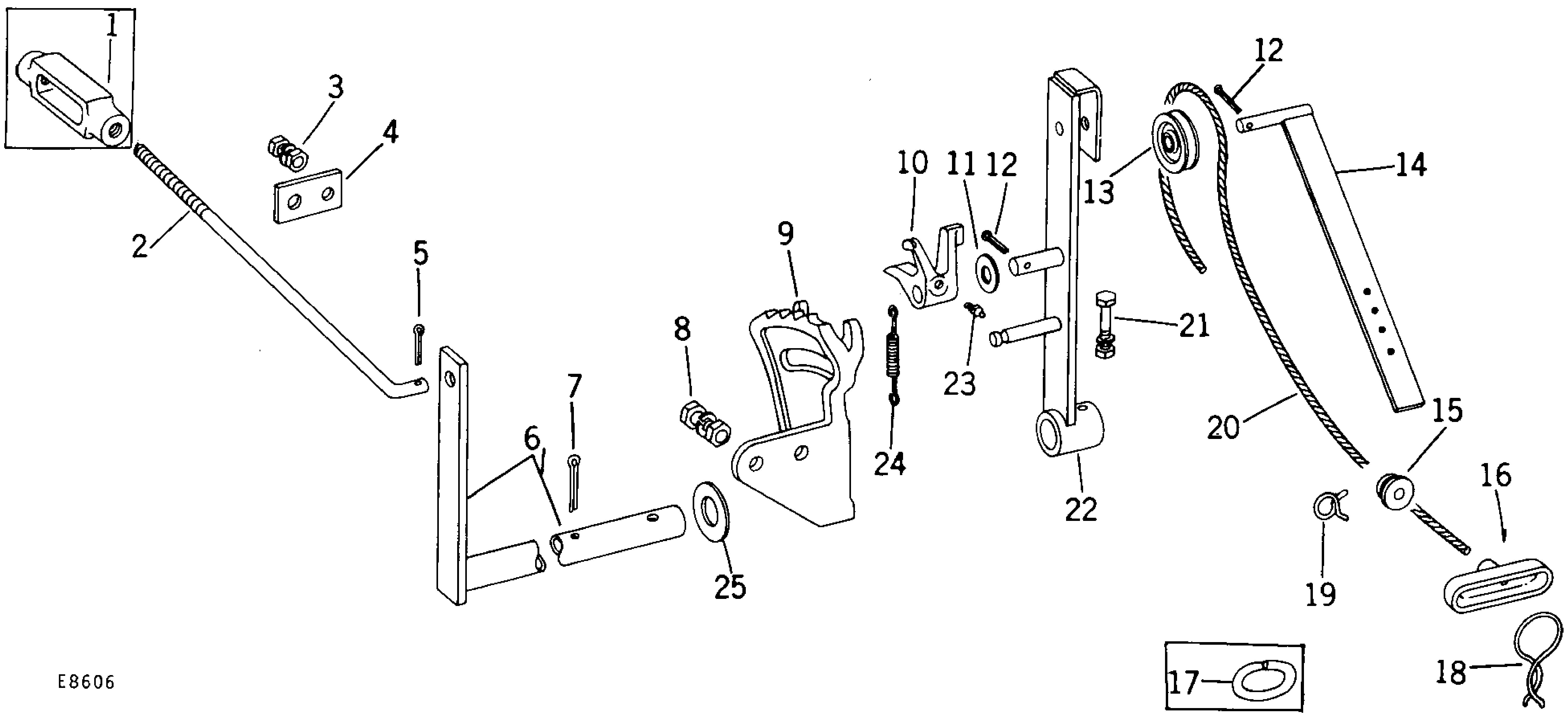
Key	Part No.	Serial No.	Description
1	67H-AFR	(-)	Link, attachment, regular, right (15 used)
2	67H-AFL	(-)	Link, attachment, regular, left (15 used)
3	C 12940	(-)	Rivet, flat head, 5/16" x 3/4" (30 used)
4	AC 15387	(-)	Flight, with 67H-AFL and 67H-AFR attachment links (15 used)
5	67 H	(-)	Link, steel (184 used)
6	AC 15319	(- 9200)	Sub. AC15317
	AC 15317	(9201 -)	Chain, conveyor, assembly, 67H chain
7	C 16837	(-)	Pin, cotter, S-type
8	AC 15392	(-)	Pin, coupler
9	AC 15339	(-)	Link, pintle, with coupler pins and S-type cotter pins
10	AC 15340	(-)	Flight, with attaching links
11	AC 15347	(- 9200)	Sub. AC16270
	AC 16270	(9201 -)	Chain, conveyor, assembly D667J chain (14 flights)

DRIVE SHAFT AND CLUTCH



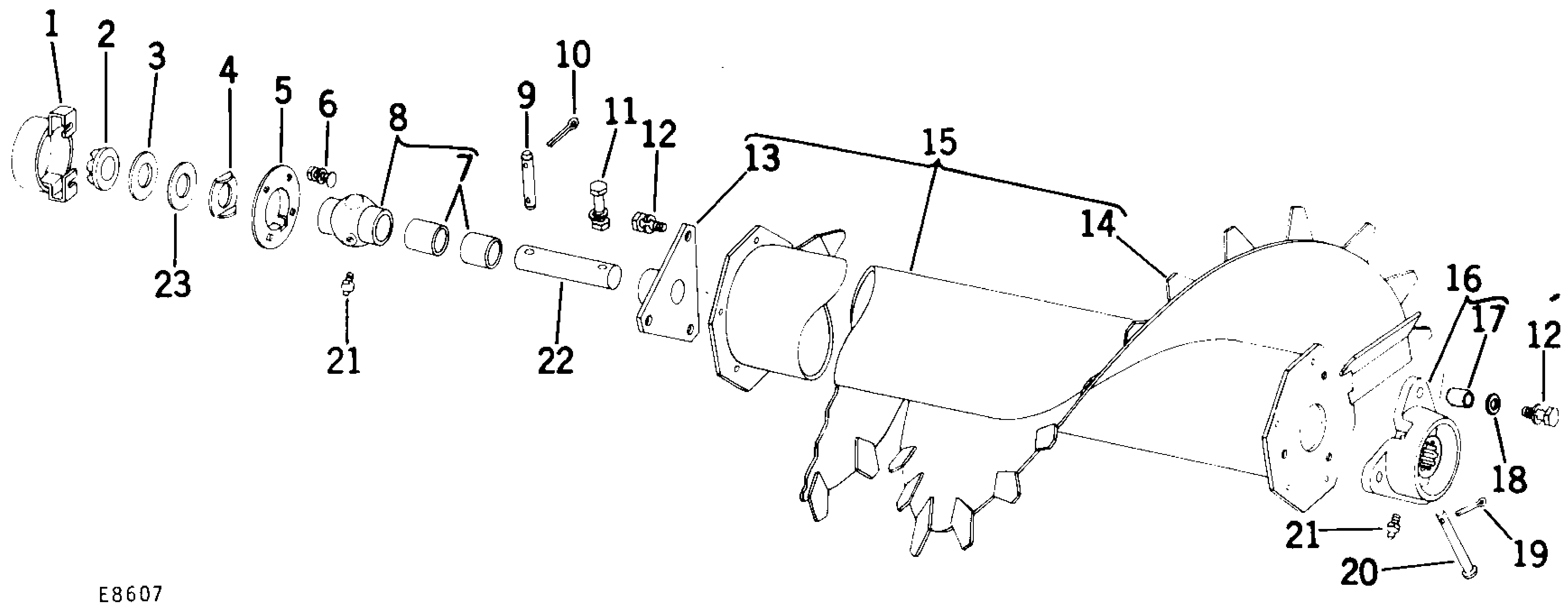
Key	*Part No.*	*Serial No.*	*Description*
1	14H 902	(-)	Nut, slotted, 3/4″
2	24H 1399	(-)	Washer, 25/32″ x 1-5/8″ x .180″
3	P 47368	(-)	Nut, special (6 used)
4	C 20045	(-)	Retainer, spring clutch (sub. for C19028)
5	N 110134	(-)	Ring, slip clutch, right (2 used)
6	C 18887	(-)	Drive, spring clutch
7	C 18890	(-)	Washer, spring clutch
8	JD 7797	(-)	Fitting, grease, 1/4″ (2 used)
9	C 20046	(-)	Sprocket, drive, 15-tooth (sub. for C18886) (540 rpm)
	C 20047	(-)	Sprocket, drive, 18-tooth (sub. for C18889) (1000 rpm)
10	C 10670	(-)	Washer, 1-9/32″ x 2-3/8″ x 1/8″ (2 used)
11	C 19599	(- 9200)	Sub. AC15367
	AC 15367	(9201 -)	Housing, PTO, rear (sub. for C18818)
12	C 19083	(-)	Screw, cap, locking, 1/2″ x 1″ (2 used)
13	24H 1211	(-)	Washer, 9/16″ x 1-3/8″ x .105″ (use as required)
14	JD 9871	(-)	Bearing, needle
15	C 19356	(-)	Collar
16	C 19010	(-)	Bolt, special, 3/4″ x 3″ (6 used)
17	24H 1183	(-)	Washer, 25/32″ x 1-3/4″ x .105″ (6 used)
18	C 19029	(-)	Spring, compression, 540 rpm, 1-3/4″ long (6 used)
19	11H 218	(-)	Pin, cotter, 3/16″ x 1-1/2″
20	C 18910	(-)	Shaft, drive, front
21	AC 15873	(-)	Guard, PTO shaft (sub. for C18819)
22	JD 7806	(-)	Fitting, grease, 90°, 1/4″
23	L 1814 C	(-)	Bushing
24	AC 14983	(-)	Bearing, front (sub. for C17854 on drive shaft)
25	11H 248	(-)	Pin, cotter, 1/4″ x 1″
26	24H 1217	(-)	Washer, 1-9/32″ x 2-7/32″ x .060″ (use as required)

FRONT CONTROL



Key	Part No.	Serial No.	Description
1	C 11292	- 9200	Turnbuckle
2	C 18799	- 9200	Rod, side
	C 20128	9201 -	Rod, side
3	19H 1731	-	Screw, cap, 3/8" x 1"
	12H 304	-	Washer, lock, 3/8"
	14H 812	-	Nut, 3/8"
4	C 18804	-	Clip, control rod support
5	11H 216	-	Pin, cotter, 3/16" x 1"
6	AC 15379	-	Tube
7	11H 218	-	Pin, cotter, 3/16" x 1-1/2"
8	19H 1815	-	Screw, cap, 1/2" x 1-1/4" (2 used)
	12H 301	-	Washer, lock, 1/2"
	14H 809	-	Nut, 1/2"
9	C 18842	-	Sector
10	C 18843	-	Pawl, control
11	24H 1341	-	Washer, 17/32" x 15/16" x .060"
12	11H 211	-	Pin, cotter, 1/8" x 3/4" (2 used)
13	C 18847	-	Pulley
14	AC 15384	-	Indicator, feed
15	C 14821	-	Guide, rope control
16	C 14836	-	Handle
17	18104	- 9200	Link, rope
18	16146	-	Spring, trip rope
19	H 3187 B	-	Clamp
20	C 14837	-	Rope
21	19H 1901	-	Screw, cap, 5/16" x 2"
	12H 303	-	Washer, lock, 5/16"
	14H 785	-	Nut, 5/16"
22	AC 15380	-	Arm
23	JD 7797	-	Fitting, grease, straight, 1/4"
24	L 1372 C	-	Spring, tension
25	24H 1480	-	Washer, 1-5/32" x 2" x .060" (use as required)

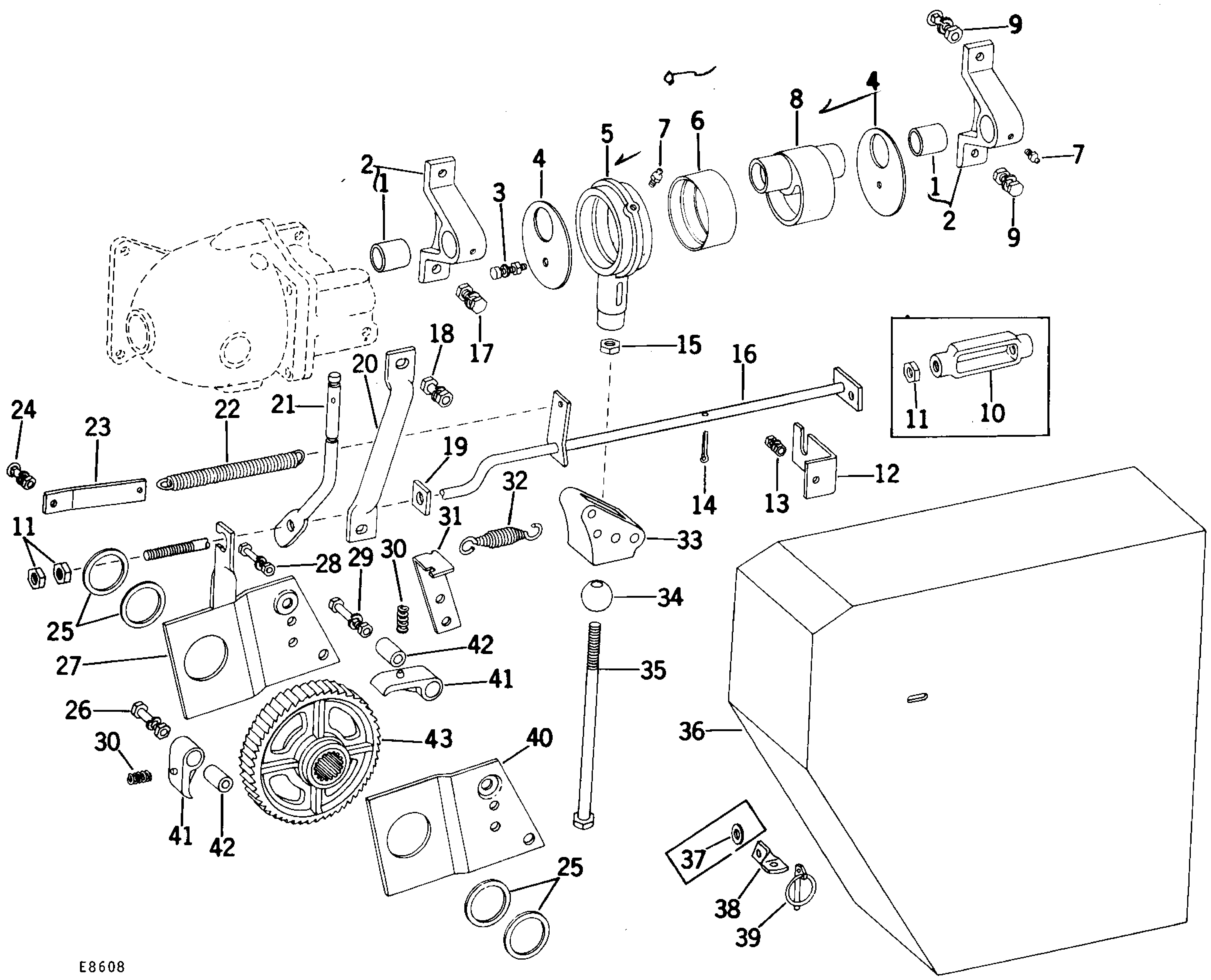
BEATER-WIDESPREAD - 9-INCH CYLINDER



E8607

Key	Part No.	Serial No.	Description
1	AC 14028	-	Guard, left
2	4208 SC	-	Collar, adjusting
3	C 11141	-	Washer, 1-1/4″ x 2-1/4″ x .060″
4	C 13503	-	Washer, thrust
5	S 5152	-	Cap, bearing shaft
6	3H 1825	-	Bolt, cge., 5/16″ x 1-1/2″ (4 used)
	12H 303	-	Washer, lock, 5/16″
	14H 785	-	Nut, 5/16″
7	L 1713 C	-	Bushing (2 used)
8	J 18976	- 10500	Sub. AE28711
	AE 28711	10501 -	Bearing (sub. for 8052C)
9	C 11023	-	Pin
10	11H 236	-	Pin, cotter, 1/8″ x 1″ (2 used)
11	19H 1912	-	Screw, cap, 3/8″ x 3-1/2″
	BP 12233	-	Nut, lock, 3/8″
12	19H 1792	-	Screw, cap, 1/2″ x 1″ (6 used)
	12H 301	-	Washer, lock, 1/2″
13	AC 15448	-	Hub, beater
14	C 13088	-	Lug (34 used)
15	AC 15354	-	Beater, 9″ cylinder
16	C 20007	- 9200	Sub. AE30705
	AE 30705	9201 -	Hub, drive (Sub. for C18801)
17	C 20029	-	Ferrule (3 used)
18	24H 1211	-	Washer, 9/16″ x 1-3/8″ x .105″ (3 used)
19	11H 269	-	Pin, cotter, 3/16″ x 3/4″
20	B 10220	-	Pin
21	JD 7759	-	Fitting, grease, straight, 1/8″ (2 used)
22	C 18893	-	Shaft, beater
23	C 10670	-	Washer, thrust, fibre, 1-9/16″ x 2-7/32″ x 1/8″

CONVEYOR DRIVE AND DRIVE SHIELD

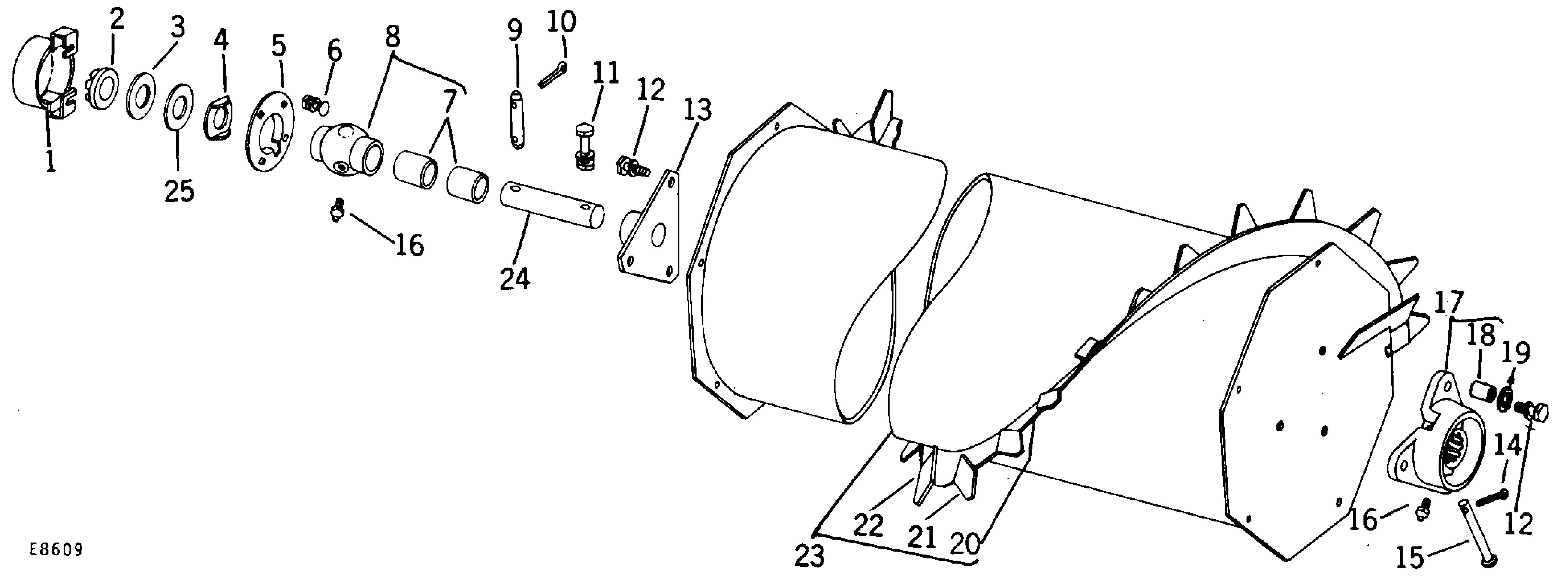


Key	Part No.	Serial No.	Description
1	L 1301 C	-	Bushing (2 used)
2	AC 15341	-	Block, pillow (sub. for C12907) (2 used)
3	19H 1733	-	Screw, cap, 3/8″ x 2-1/2″
	12H 304	-	Washer, lock, 3/8″
	14H 812	-	Nut, 3/8″
4	C 18784	-	Disk, pitman retainer (2 used)
5	AC 16345	-	Pitman (sub. for C18778, C20049, and AC15078)
6	C 18779	-	Bushing, pitman
7	JD 7797	-	Fitting, grease, straight, 1/4″ (4 used)
8	C 18777	-	Crank
9	3H 1492	-	Bolt, cge., 1/2″ x 2″ (2 used)
	12H 301	-	Washer, lock, 1/2″
	14H 809	-	Nut, 1/2″
10	C 11292	- 9200	Turnbuckle
11	14H 809	-	Nut, 1/2″ (3 used)
12	C 18955	-	Guide, throwout rod
13	19H 1900	-	Screw, cap, 5/16″ x 3/4″
	12H 303	-	Washer, lock, 5/16″
	14H 785	-	Nut, 5/16″
14	11H 216	-	Pin, cotter, 3/16″ x 1″
15	14H 821	-	Nut, hex., jam, 5/8″
16	AC 15353	- 9200	Rod, rear control
	AC 16385	9201 -	Rod, rear control
17	19H 1792	-	Screw, cap, 1/2″ x 1″ (2 used)
	12H 301	-	Washer, lock, 1/2″
	14H 809	-	Nut, 1/2″
18	19H 1721	-	Screw, cap, 1/2″ x 1-1/2″
	12H 301	-	Washer, lock, 1/2″
	14H 809	-	Nut, 1/2″

CONVEYOR DRIVE AND DRIVE SHIELD—Continued

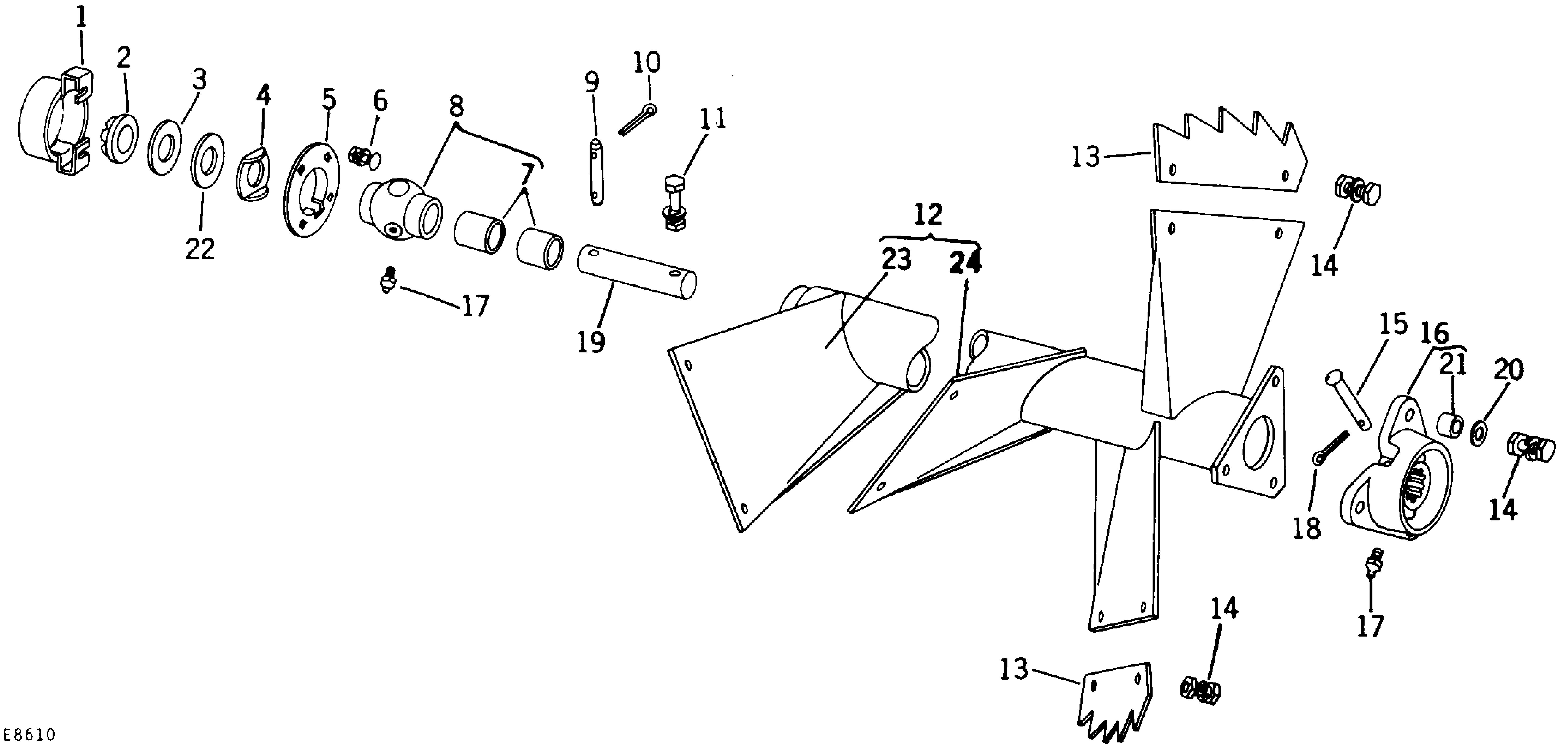
Key	Part No.	Serial No.	Description
19	C 18803	(-)	Washer, shock, absorber
20	C 18785	(-)	Brace, gear case
21	C 18772	(-)	Arm, declutching
22	229 SE	(-)	Spring
23	C 15572	(-)	Strap, anchor spring
24	3H 1558	(-)	Bolt, cge., 3/8" x 1-1/2" (2 used)
	12H 304	(-)	Washer, lock, 3/8"
	14H 812	(-)	Nut, 3/8"
25	24H 1683	(-)	Washer, 2-1/32" x 2-3/4" x .060" (2 used)
26	19H 2260	(-)	Screw, cap, 1/2" x 2-3/4"
	12H 301	(-)	Washer, lock, 1/2"
	14H 809	(-)	Nut, 1/2"
27	AC 15351	(-)	Plate, ball carrier, left
28	19H 2128	(-)	Screw, cap, 3/8" x 3" (2 used)
	12H 304	(-)	Washer, lock, 3/8"
	14H 812	(-)	Nut, 3/8"
29	19H 1820	(-)	Screw, cap, 1/2" x 3" (2 used)
	12H 301	(-)	Washer, lock, 1/2"
	14H 809	(-)	Nut, 1/2"
30	L 222 C	(-)	Spring, compression (2 used)
31	C 13040	(-)	Hanger, pawl spring
32	L 2264 C	(-)	Spring, tension
33	C 18783	(-)	Carrier, ball
34	C 13036	(-)	Ball, feed
35	8H 4462	(-)	Screw, cap, 5/8" x 10-1/2"
36	AC 15369	(-)	Shield, rear drive
37	24H 1219	(- 10500)	Washer, 7/16" x 1" x .075"
38	C 18894	(- 10500)	Sub. E48180
	E 48180	(10501 -)	Link, shield retaining
39	B 11182	(-)	Pin, quick lock
40	C 13038	(-)	Plate, ball carrier, right
41	C 12902	(-)	Pawl (2 used)
42	C 13041	(-)	Bearing, pawl (2 used)
43	C 18775	(-)	Ratchet, 72-tooth

BEATER-WIDESPREAD - 18-INCH CYLINDER



Key	Part No.	Serial No.	Description
1	AC 14028	(-)	Guard, left
2	4208 SC	(-)	Collar, adjusting
3	C 11141	(-)	Washer, 1-1/4" x 2-1/4" x .060"
4	C 13503	(-)	Washer, thrust
5	S 5152 C	(-)	Cap, bearing shaft
6	3H 1825	(-)	Bolt, cge., 5/16" x 1-1/2" (4 used)
	12H 303	(-)	Washer, lock, 5/16"
	14H 785	(-)	Nut, 5/16"
7	L 1713 C	(-)	Bushing (2 used)
8	J 18976	(- 10500)	Sub. AE28711
	AE 28711	(10501 -)	Bearing (sub. for 8052C)
9	C 11023	(-)	Pin
10	11H 236	(-)	Pin, cotter, 1/8" x 1" (2 used)
11	19H 1912	(-)	Screw, cap, 3/8" x 3-1/2"
	BP 12233 E	(-)	Nut, lock, 3/8"
12	19H 1792	(-)	Screw, cap, 1/2" x 1" (6 used)
	12H 301	(-)	Washer, lock, 1/2"
13	AC 15448	(-)	Hub, beater
14	11H 216	(-)	Pin, cotter, 3/16" x 1"
15	B 10220	(-)	Pin
16	JD 7759	(-)	Fitting, grease, straight, 1/8" (2 used)
17	C 20007	(- 9200)	Sub. AE30705
	AE 30705	(9201 -)	Hub, drive (sub. for C18801)
18	C 20029	(-)	Ferrule (3 used)
19	24H 1211	(-)	Washer, 9/16" x 1-3/8" x .105" (3 used)
20	C 14914	(-)	Flighting, right
	C 14915	(-)	Flighting, left
21	C 13088	(-)	Lug (28 used)
22	C 18236	(- 10500)	Sub. E50059
	E 50059	(10501 -)	Reinforcement, left (4 used)
	C 18235	(- 10500)	Sub. E50058
	E 50058	(10501 -)	Reinforcement, right (4 used)
23	AC 15355	(-)	Beater, 18" cylinder
24	C 18893	(-)	Shaft, beater
25	C 10670	(-)	Washer, thrust, fibre, 1-9/16" x 2-7/32" x 1/8"

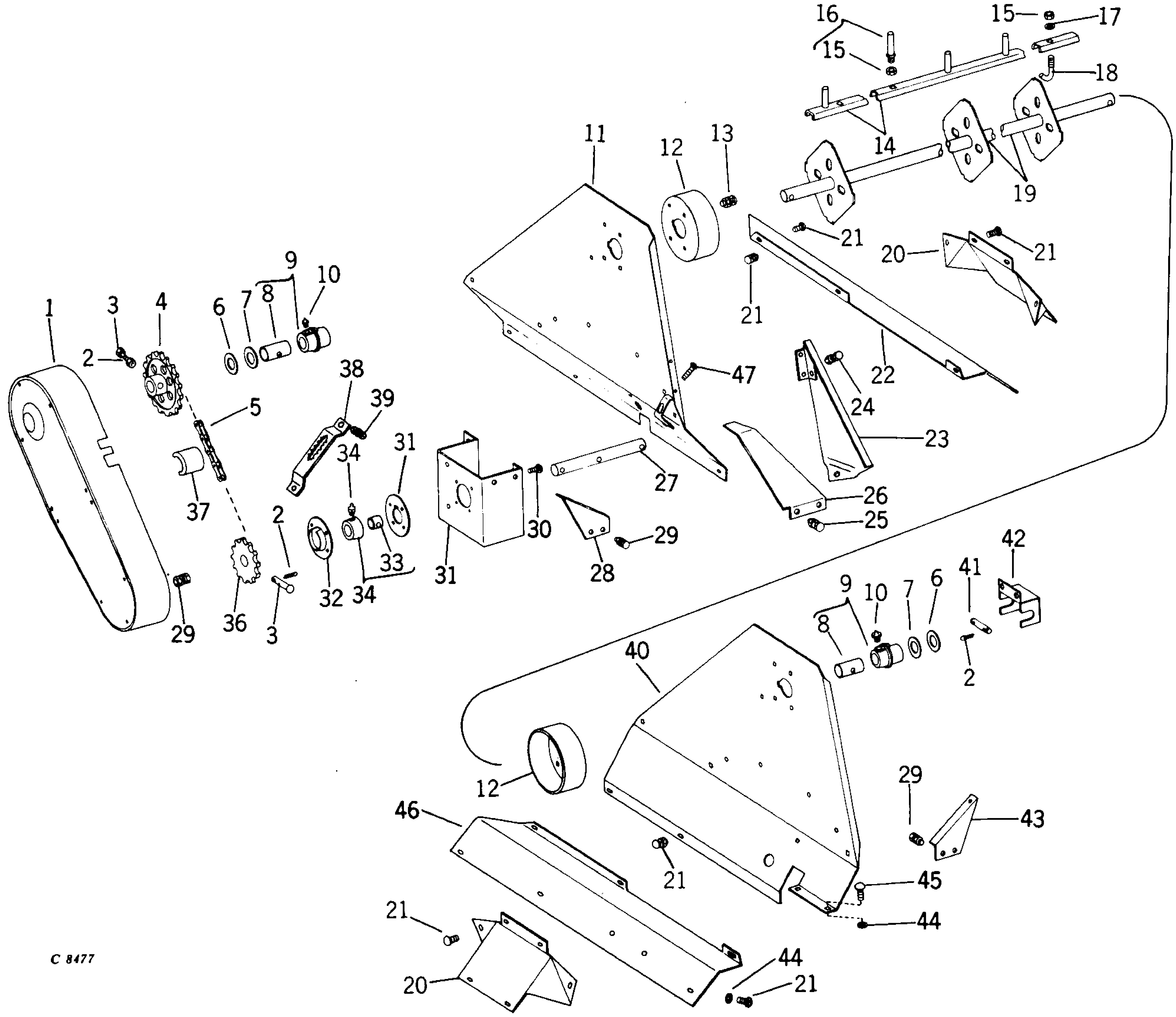
PADDLE BEATER



E8610

Key	Part No.	Serial No.	Description
1	AC 14028	(-)	Guard, left
2	4208 SC	(-)	Collar, adjusting
3	C 11141	(-)	Washer, 1-1/4″ x 2-1/4″ x .060″ (2 used)
4	C 13503	(-)	Washer, thrust
5	S 5152 C	(-)	Cap, bearing
6	3H 1825	(-)	Bolt, cge., 5/16″ x 1-1/2″
	12H 303	(-)	Washer, lock, 5/16″
	14H 785	(-)	Nut, 5/16″
7	L 1713 C	(-)	Bushing (2 used)
8	J 18976	(- 10500)	Sub. AE28711
	AE 28711	(10501 -)	Bearing (sub. for 8052C)
9	C 11023	(-)	Pin
10	11H 236	(-)	Pin, cotter, 1/8″ x 1″ (2 used)
11	19H 1912	(-)	Screw, cap, high-strength, 3/8″ x 3-1/2″
	BP 12233	(-)	Nut, lock, 3/8″
12	AC 15328	(- 9200)	Sub. AE29703
	AE 29703	(9200 -)	Beater, paddle
13	C 18732	(-)	Blade (12 used)
14	19H 1815	(-)	Screw, cap, 1/2″ x 1-1/4″ (27 used)
	12H 301	(-)	Washer, lock, 1/2″
	14H 809	(-)	Nut, 1/2″
15	B 10220	(-)	Pin
	C 20007	(- 9200)	Sub. AE30705
	AE 30705	(9201 -)	Hub, drive (sub. for C18801)
17	JD 7759	(-)	Fitting, grease, straight, 1/8″ (2 used)
18	11H 216	(-)	Pin, cotter, 3/16″ x 1″
19	C 18893	(-)	Shaft, beater
20	24H 1211	(-)	Washer, 9/16″ x 1-3/8″ x .105″ (3 used)
21	C 20029	(-)	Ferrule (3 used)
22	C 10670	(-)	Washer, thrust, fibre, 1-9/32″ x 2-7/32″ x 1/8″
23	E 50043	(-)	Bracket, paddle, L.H. (6 used)
24	E 50042	(-)	Bracket, paddle, R.H. (6 used)

UPPER BEATER AND DRIVE

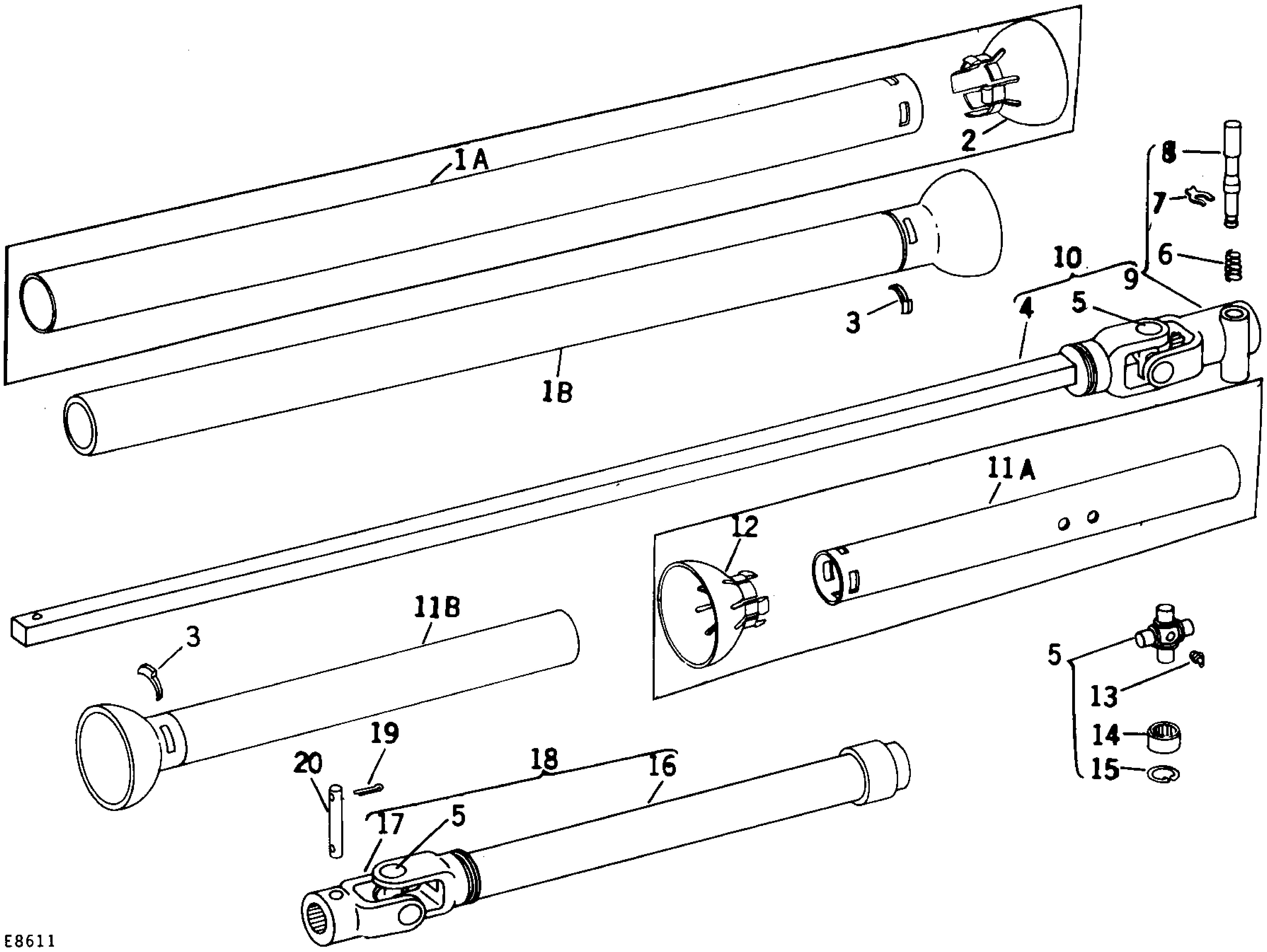


Key	Part No.	Serial No.	Description
1	AC 15497	(-)	Guard
2	BP 12233	(-)	Nut, lock, 3/8″
3	19H 2128	(-)	Screw, cap, 3/8″ x 3″
4	C 19044	(-)	Sprocket, 27-tooth, no. 60
5	... .	(-)	Chain, roller, upper beater drive, type 2060, 1-1/2″ double pitch, 47 links (assemble from two AP26297, one AP26298, one BP10239, and one BP10240)
6	C 11141	(-)	Washer
7	C 10670	(-)	Washer
8	L 1814 C	(-)	Bushing
9	J 19374	(- 9200)	Sub. AE28524
	AE 28524	(9201 -)	Bearing (sub. for 8112C)
10	JD 7769	(-)	Fitting, grease, 1/4″ (2 used)
11	C 18879	(-)	Side, left
12	C 15074	(-)	Guard (2 used)
13	3H 1519	(-)	Bolt, cge., 3/8″ x 1″ (8 used)
	14H 812	(-)	Nut, 3/8″
	12H 304	(-)	Washer, lock, 3/8″
14	AC 15495	(-)	Bar, beater (4 used)
15	14H 809	(-)	Nut, 1/2″ (56 used)
16	AC 12632	(-)	Pin, beater (44 used)
17	12H 301	(-)	Washer, lock, 1/2″ (12 used)
18	C 18054	(-)	Bolt, hook (12 used)
19	AC 15449	(-)	Shaft, beater bar
20	C 18899	(-)	Gusset, side (2 used)

UPPER BEATER AND DRIVE—Continued

Key	Part No.	Serial No.	Description
21	3H 1463	(-)	Bolt, cge., 3/8" x 3/4" (23 used)
	12H 304	(-)	Washer, lock, 3/8"
	14H 812	(-)	Nut, 3/8"
22	C 18903	(-)	Filler, left
23	AC 15496	(-)	Filler, guard
24	19H 2020	(-)	Screw, cap, 5/16" x 1/2"
	12H 303	(-)	Washer, lock, 5/16"
25	19H 1900	(-)	Screw, cap, 5/16" x 3/4" (5 used)
	12H 303	(-)	Washer, lock, 5/16"
	14H 785	(-)	Nut, 5/16"
26	C 19084	(-)	Cover, bearing bracket
27	C 18872	(-)	Shaft, drive
28	C 19042	(-)	Gusset, left side
29	19H 1936	(-)	Screw, cap, 3/8" x 3/4" (5 used)
	12H 304	(-)	Washer, lock, 3/8"
	14H 812	(-)	Nut, 3/8"
30	3H 1709	(-)	Bolt, cge., 5/16" x 1" (4 used)
	12H 303	(-)	Washer, lock, 5/16"
	14H 785	(-)	Nut, 5/16"
31	C 18873	(-)	Bracket, bearing
32	S 5152 C	(-)	Cap, bearing (2 used)
33	L 1713 C	(-)	Bushing
34	AC 14804	(-)	Bearing (sub. for C17413)
35	JD 7759	(-)	Fitting, grease, straight, 1/8"
36	C 19043	(- 9200)	Sub. AE30285
	AE 30285	(9201 -)	Sprocket, 18-tooth, no. 60
37	C 16549	(-)	Block, take-up
38	C 18880	(-)	Bracket, take-up block
39	3H 1522	(-)	Bolt, cge., 1/2" x 1-1/4"
	12H 301	(-)	Washer, lock, 1/2"
	14H 809	(-)	Nut, 1/2"
40	C 18878	(-)	Side, right
41	C 11023	(-)	Pin
42	AC 15498	(-)	Guard, shaft
43	C 19046	(-)	Gusset, right side
44	24H 1219	(-)	Washer, 7/16" x 1" x .075" (2 used)
45	3H 1558	(-)	Bolt, cge., 3/8" x 1-1/2" (2 used)
	12H 304	(-)	Washer, lock, 3/8"
	14H 812	(-)	Nut, 3/8"
46	C 18902	(-)	Filler, right
47	3H 1833	(-)	Bolt, cge., 3/8" x 1-3/4"
	12H 304	(-)	Washer, lock, 3/8"
	14H 812	(-)	Nut, 3/8"

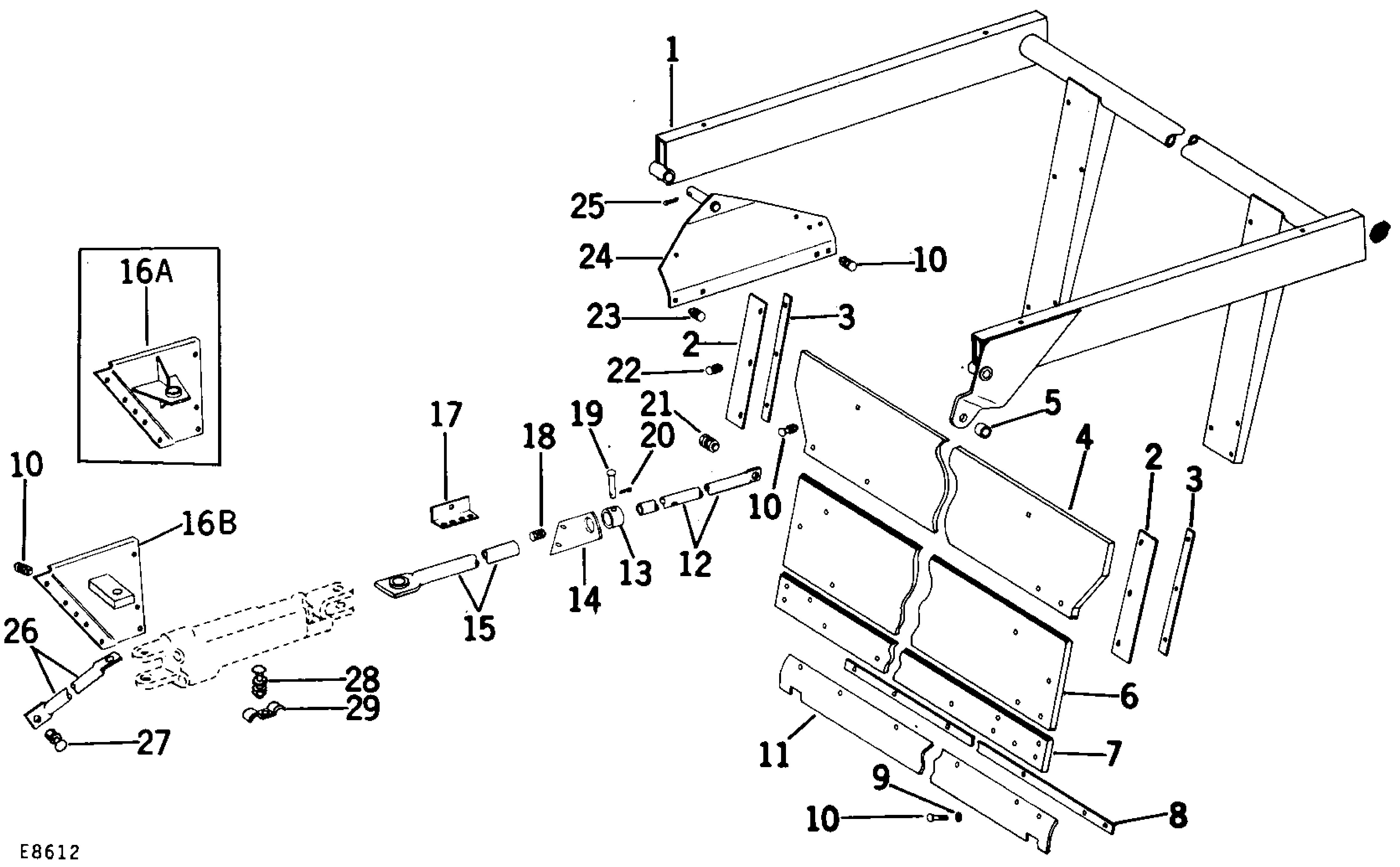
TELESCOPING POWER SHAFT - 540 AND 1000 RPM



E8611

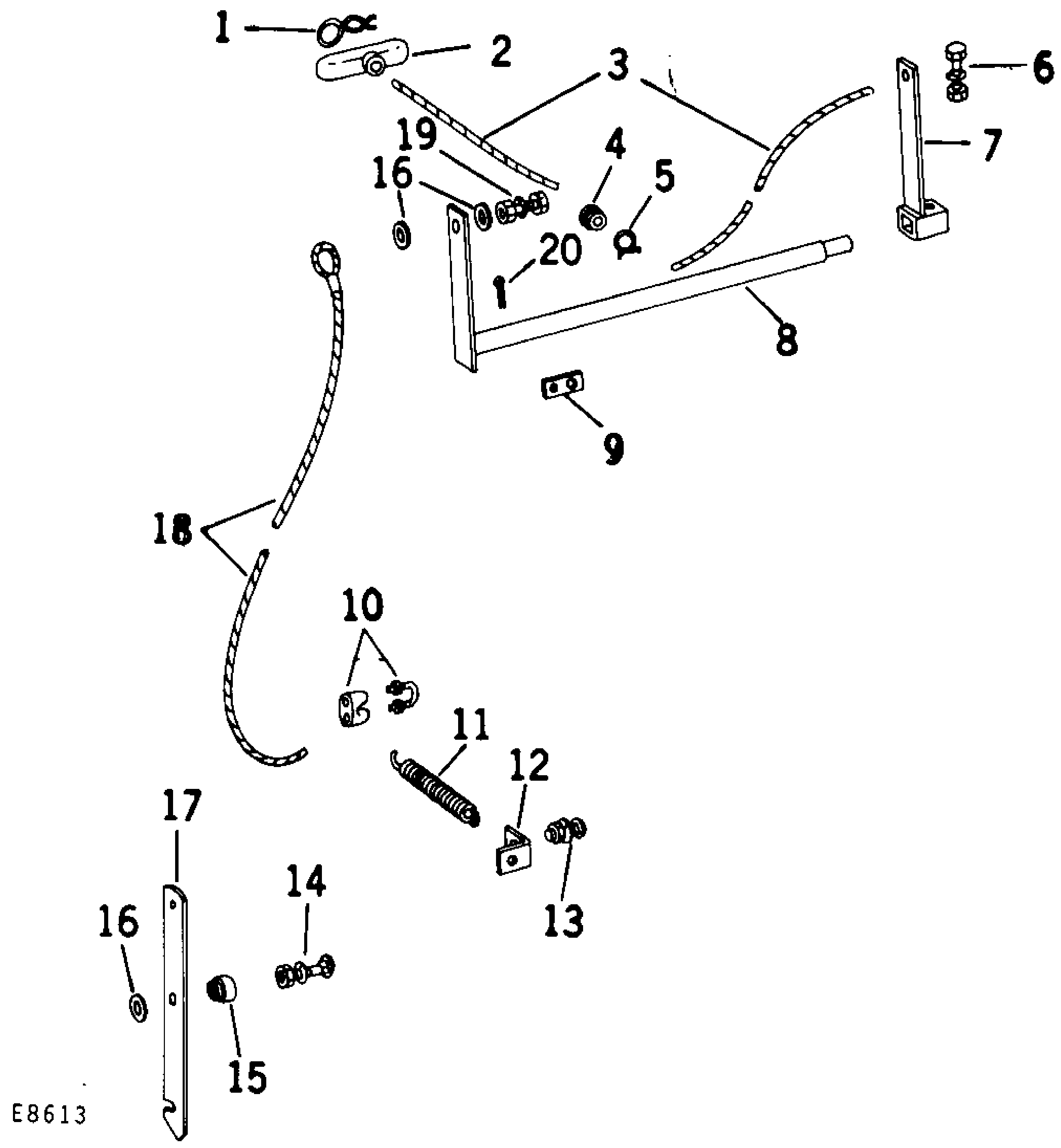
Key	Part No.	Serial No.	Description
1A	C 18807	(- 9200)	Sub. AE29700
	C 18815	(- 9200)	Sub. AE29701
1B	AE 29700	(9201 -)	Shield, outer (540 rpm)
	AE 29701	(9201 -)	Shield, outer (1000 rpm)
2	C 18808	(- 9200)	Shield, bell
3	W 16923	(9201 -)	Bearing, nylon (6 used)
4	AC 12800	(-)	Yoke and shaft, assembly (540 rpm)
	AC 15364	(-)	Yoke and shaft, assembly (1000 rpm)
5	AM 2871	(- 9200)	Sub. AE23716
	AE 23716	(9201 -)	Spider and bearing assembly (2 used)
6	Z 9591 H	(-)	Spring, compression (540 rpm)
	C 11156	(- 9200)	Sub. H22802
	H 22802	(9201 -)	Spring, compression (1000 rpm)
7	Z 9785 H	(-)	Washer, lock
8	C 15560	(-)	Pin, lock, with lock washer (540 rpm)
	C 11157	(- 9200)	Sub. AH12250
	AH 12250	(9201 -)	Pin, lock, with lock washer (1000 rpm)
9	AC 13360	(-)	Yoke, universal joint (540 rpm)
	AC 10628	(- 9200)	Sub. AE20385
	AE 20385	(9201 -)	Yoke, universal joint (1000 rpm)
10	AC 12801	(-)	Joint and shaft assembly complete (540 rpm)
	AC 15365	(9201 -)	Joint and shaft assembly complete (1000 rpm)
11A	C 18810	(- 9200)	Sub. AE29702
11B	AE 29702	(9201 -)	Shield, inner
12	C 18811	(- 9200)	Shield, bell
13	JD 7760	(-)	Fitting, grease, 67-1/2°, 1/8" (2 used)
14	. . . .	(-)	Bearing assembly (8 used) (sub. AE23716)
15	BP 13669	(-)	Ring, snap
16	AC 15357	(-)	Yoke, universal joint, with tube
17	C 14665	(-)	Yoke, universal joint, with pin hole
18	AC 15358	(-)	Rear yoke assembly complete
19	11H 211	(-)	Pin, cotter, 1/8" x 3/4" (2 used)
20	Y 1870 C	(-)	Pin

POWER-SEAL ENDGATE



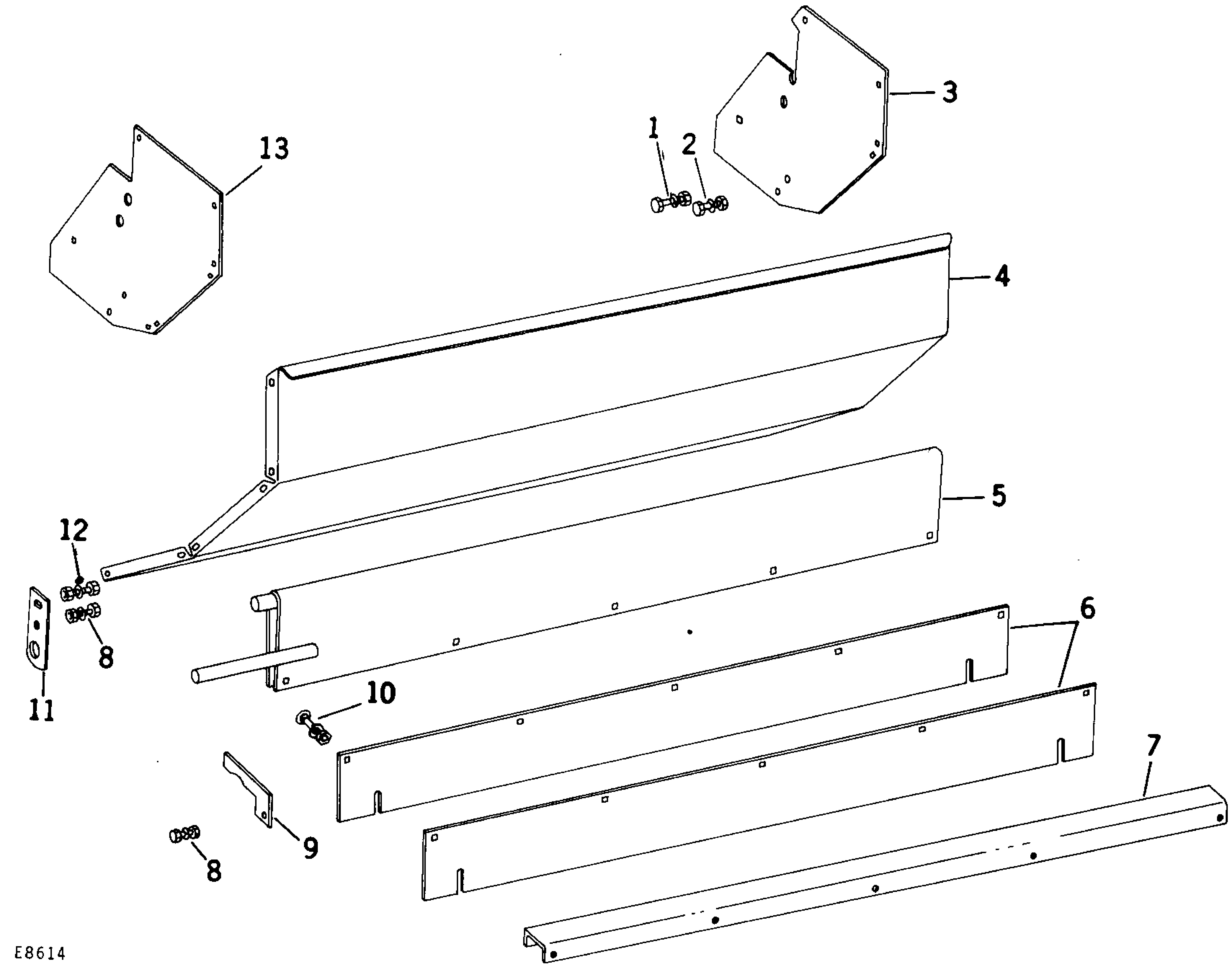
Key	Part No.	Serial No.	Description
1	AC 15335	(-)	Frame
2	C 18752	(-)	Flap, side (2 used)
3	C 18751	(-)	Retainer, side flap (2 used)
4	C 18757	(-)	Board, upper
5	R 3020 N	(-)	Ferrule
6	C 18758	(-)	Board, center
7	C 18750	(-)	Board, lower
8	C 18760	(-)	Retainer, cross
9	24H 1219	(-)	Washer, 7/16" x 1" x .075" (10 used)
10	3H 1558	(-)	Bolt, cge., 3/8" x 1-1/2" (26 used)
	12H 304	(-)	Washer, lock, 3/8"
	14H 812	(-)	Nut, 3/8"
11	C 18759	(-)	Flap, cross
12	C 18744	(-)	Extension, push rod
13	C 18742	(-)	Collar, push rod
14	C 18739	(-)	Guide, push rod
15	AC 15332	(-)	Rod, push
16A	AC 15331	(-)	Bracket, cylinder (-1969) (sub. AC16263 and C19975)
16B	AC 16263	(-)	Bracket, cylinder (1969-)
17	C 18745	(-)	Bracket, shear pin
18	19H 1731	(-)	Screw, cap, 3/8" x 1" (2used)
	12H 304	(-)	Washer, lock, 3/8"
	14H 812	(-)	Nut, 3/8"
19	X 1301 C	(-)	Pin
20	11H 211	(-)	Pin, cotter, 1/8" x 3/4"
21	19H 1734	(-)	Screw, cap, 5/8" x 2"
	12H 294	(-)	Washer, lock, 5/8"
	14H 760	(-)	Nut, 5/8"
22	3H 1833	(-)	Bolt, cge., 3/8" x 1-3/4" (2 used)
	12H 304	(-)	Washer, lock, 3/8"
	14H 812	(-)	Nut, 3/8"
23	3H 1519	(-)	Bolt, cge., 3/8" x 1" (6 used)
	12H 304	(-)	Washer, lock, 3/8"
	14H 812	(-)	Nut, 3/8"
24	AC 15333	(-)	Bracket, pivot, right
	AC 15334	(-)	Bracket, pivot, left
25	11H 218	(-)	Pin, cotter, 3/16" x 1-1/2" (2 used)
26	C 19975	(-)	Brace (used with AC16263)
27	19H 1815	(-)	Screw, cap, 1/2" x 1-1/4"
	12H 301	(-)	Washer, lock, 1/2"
	14H 809	(-)	Nut, 1/2"
28	3H 1825	(-)	Bolt, cge., 5/16" x 1-1/2"
	12H 303	(-)	Washer, lock, 5/16"
	14H 785	(-)	Nut, 5/16"
29	E 52001	(-)	Clamp, hose (2 used)

REAR ENDGATE CONTROLS



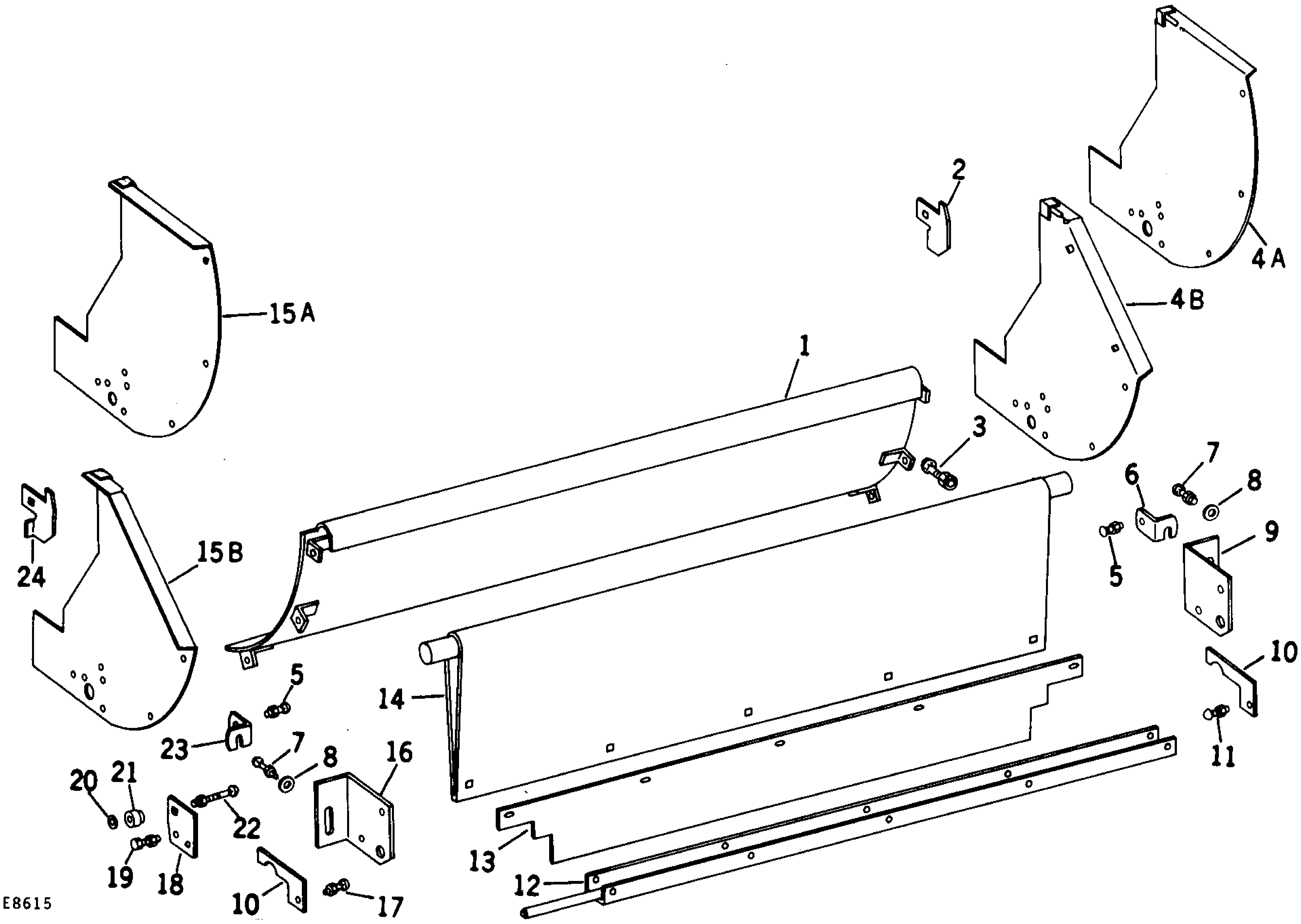
Key	Part No.	Serial No.	Description
1	16146	(-)	Spring, trip rope
2	C 14836	(-)	Handle, control
3	C 14837	(-)	Rope, control
4	C 14821	(-)	Guide, rope
5	H 3187 B	(-)	Clamp
6	19H 1875	(-)	Screw, cap, 5/16″ x 1-3/4″
	12H 303	(-)	Washer, lock, 5/16″
	14H 785	(-)	Nut, 5/16″
7	AC 15383	(-)	Arm, trip
8	AC 15447	(-)	Tube, control
9	C 18804	(-)	Clip, control rod
10	G 6688 E	(-)	Clamp, cable
11	L 1024 C	(-)	Spring, tension
12	X 8229 C	(-)	Anchor, spring
13	3H 1833	(-)	Bolt, cge., 3/8″ x 1-3/4″
	12H 304	(-)	Washer, lock, 3/8″
	14H 812	(-)	Nut, 3/8″
14	3H 1512	(-)	Bolt, cge., 3/8″ x 2-1/2″
	14H 812	(-)	Nut, 3/8″
15	C 13277	(-)	Spacer
16	24H 1219	(-)	Washer, 7/16″ x 1″ x .075″ (3 used)
17	C 18865	(-)	Latch
18	C 15091	(-)	Cable
19	19H 1731	(-)	Screw, cap, 3/8″ x 1″ (2 used)
	12H 304	(-)	Washer, lock, 3/8″
	14H 812	(-)	Nut, 3/8″
20	11H 218	(-)	Pin, cotter, 3/16″ x 1-1/2″

REAR ENDGATE
(Bolt-On Type)



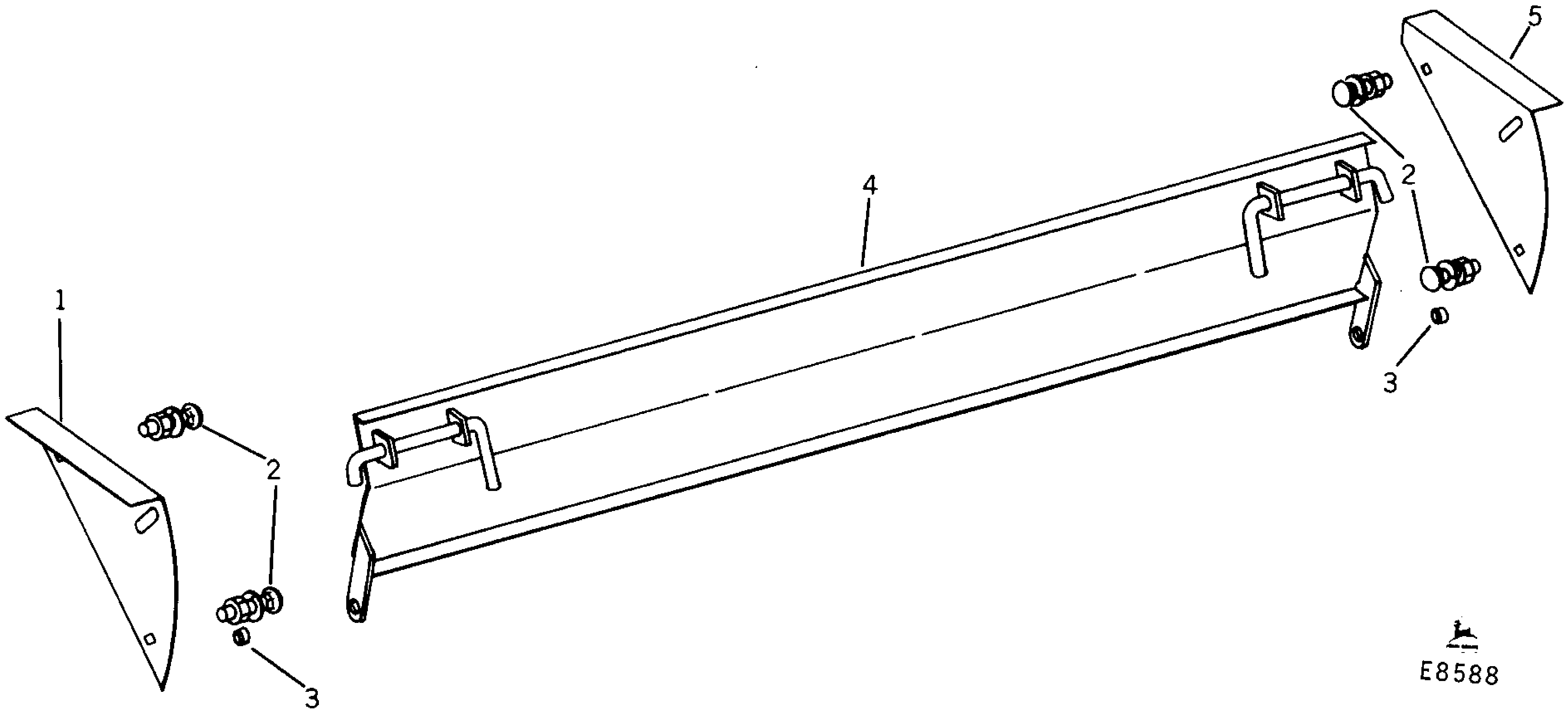
Key	Part No.	Serial No.	Description
1	19H 1801	(-)	Screw, cap, 3/8″ x 2″
	12H 304	(-)	Washer, lock, 3/8″
	14H 812	(-)	Nut, 3/8″
2	19H 1800	(-)	Screw, cap, 3/8″ x 1-1/2″
	12H 304	(-)	Washer, lock, 3/8″
	14H 812	(-)	Nut, 3/8″
3	C 18868	(-)	Side, right
4	C 18866	(-)	Sheet, end
5	AC 15446	(-)	Door
6	C 18861	(-)	Flap (2 used)
7	C 19082	(-)	Reinforcement, flap
8	19H 1936	(-)	Screw, cap, 3/8″ x 3/4″ (6 used)
	12H 304	(-)	Washer, lock, 3/8″
	14H 812	(-)	Nut, 3/8″
9	C 19081	(-)	Filler, bearing cover (2 used)
10	3H 1557	(-)	Bolt, cge., 3/8″ x 1-1/4″ (5 used)
	12H 304	(-)	Washer, lock, 3/8″
	14H 812	(-)	Nut, 3/8″
11	C 18862	(-)	Pivot, strap (2 used)
12	19H 1731	(-)	Screw, cap, 3/8″ x 1″ (2 used)
	12H 304	(-)	Washer, lock, 3/8″
	14H 812	(-)	Nut, 3/8″
13	C 18867	(-)	Side, left

REAR ENDGATE
(Slip-On Type)



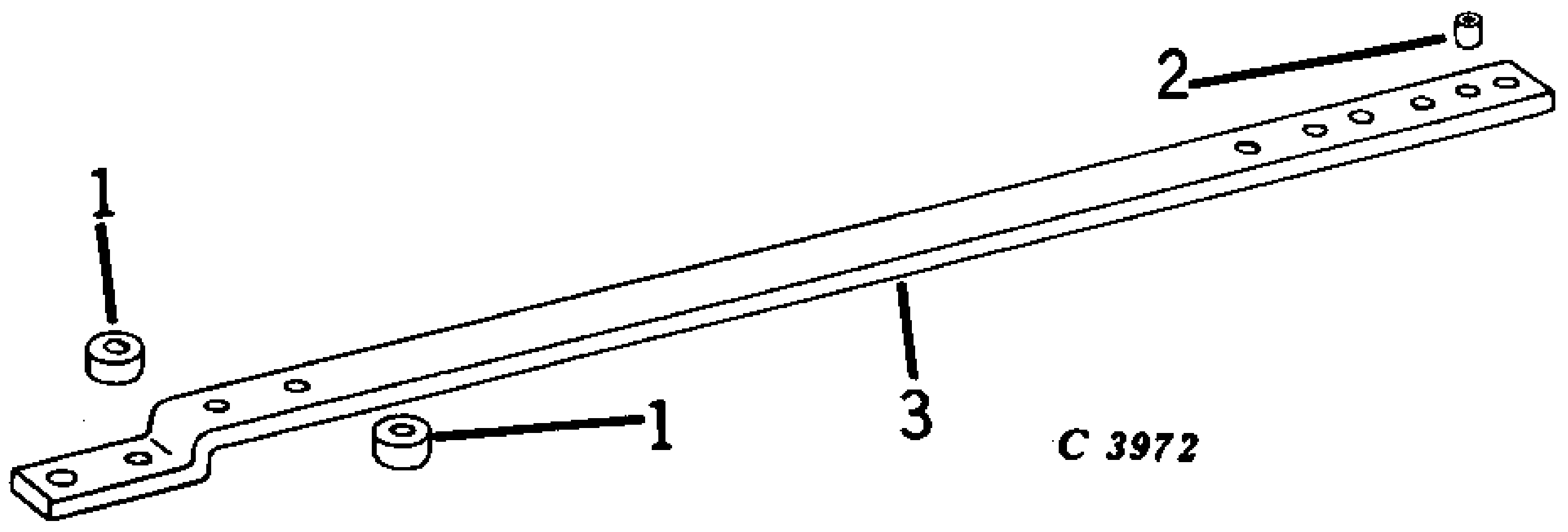
Key	Part No.	Serial No.	Description
1	AC 16376	(-)	Sheet, back (high style)
	AE 29222	(-)	Sheet, back (low style)
2	E 48183	(-)	Support, endgate, R.H.
3	3H 1557	(-)	Bolt, cge., 3/8″ x 1-1/4″ (5 used)
	14H 812	(-)	Nut, 3/8″
4A	AC 16377	(-)	Sheet, end, R.H. (high style)
4B	AE 29330	(-)	Sheet, end, R.H. (low style)
5	3H 1558	(-)	Bolt, cge., 3/8″ x 1-1/2″ (2 used)
	14H 812	(-)	Nut, 3/8″
6	E 48182	(-)	Bracket, endgate, lower right
7	3H 1439	(-)	Bolt, cge., 1/2″ x 1-3/4″ (2 used)
	14H 809	(-)	Nut, 1/2″
8	24H 1128	(-)	Washer, 9/16″ x 1-3/8″ x .075″ (2 used)
9	E 48185	(-)	Bracket, endgate, R.H.
10	C 19081	(-)	Filler, bearing cover (2 used)
11	3H 1463	(-)	Screw, cap, 3/8″ x 3/4″
	14H 812	(-)	Nut, 3/8″
12	AC 16231	(-)	Reinforcement, flap
13	C 19941	(-)	Flap
14	AC 16232	(-)	Door
15A	AC 16378	(-)	Sheet, end, L.H. (high style)
15B	AE 29331	(-)	Sheet, end, L.H. (low style)
16	E 48186	(-)	Bracket, endgate, L.H.
17	19H 2544	(-)	Screw, cap, 3/8″ x 1-1/2″
	14H 812	(-)	Nut, 3/8″
18	E 48177	(-)	Bracket, pivot
19	19H 2528	(-)	Screw, cap, 1/2″ x 2″
	14H 809	(-)	Nut, 1/2″
20	24H 1219	(-)	Washer, 7/16″ x 1″ x .075″
21	C 13277	(-)	Spacer
22	3H 1512	(-)	Bolt, cge., 3/8″ x 2-1/2″
	14H 812	(-)	Nut, 3/8″
23	E 48181	(-)	Bracket, endgate, lower left
24	E 48184	(-)	Support, endgate, L.H.

REAR ENDGATE EXTENSION



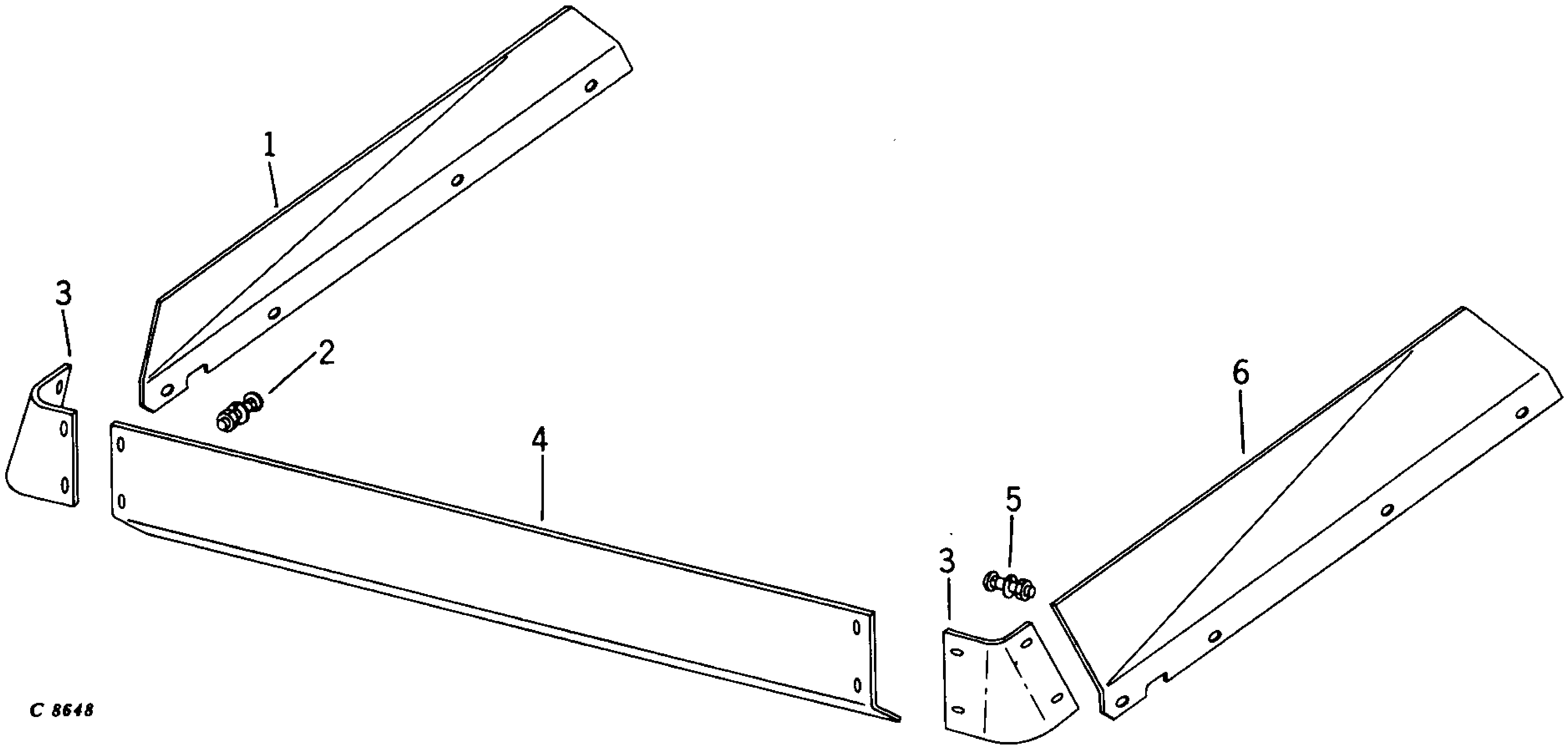
Key	Part No.		Serial No.	Description
1	E	49235	(-)	Extension, side sheet, L.H.
2	3H	1463	(-)	3/8″ x 3/4″ cge. bolt (4 used)
	12H	304	(-)	Washer, lock, 3/8″
	14H	812	(-)	Nut, 3/8″
3	C	18094	(-)	Ferrule (2 used)
4	AE	29329	(-)	Extension, rear endgate
5	E	49234	(-)	Extension, side sheet, R.H.

SPECIAL DRAWBAR
(For 2510, 2520 and 3010 Tractors)



Key	Part No.		Serial No.	Description
1	C	15066	(-)	Spacer, locating (3010) (2 used)
	E	52537	(-)	Spacer, locating, (2510 and 2520) (2 used)
2	C	15065	(-)	Spacer, bushing
3	R	28057	(-)	Drawbar

FRONT DASH EXTENSIONS



Key	Part No.	Serial No.	Description
1	C 18736	(-)	Extension, side, right
2	3H 1540	(-)	Bolt, cge., 5/16″ x 3/4″ (8 used)
	12H 303	(-)	Washer, lock, 5/16″
	14H 785	(-)	Nut, 5/16″
3	C 18738	(-)	Extension, corner (2 used)
4	C 18735	(-)	Extension, front
5	3H 1765	(-)	Bolt, cge., 3/8″ x 3/4″ (13 used)
	12H 304	(-)	Washer, lock, 3/8″
	14H 812	(-)	Nut, 3/8″
6	C 18737	(-)	Extension, side, left

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